

LDDC hires outsider to assess highway scheme

THE London Docklands Development Corporation has appointed outside urban design consultants to assess the impact of major new highway proposals in Tower Hamlets.

The £40 million, four-lane, "cut and cover" road scheme—chosen by the LDDC because it has the least environmental impact, will begin at the Highway, passing under Limehouse Basin and ending at a new junction with Westferry Road.

If the road does go ahead it would mean the demolition of a block on the troubled St Vincent Estate, with the loss of around 70 homes, and Burrell House, a 30 person-estate off the Highway.

The consultant, Tony Mead, was originally asked to present a scheme for a triangular parcel of land bounded by Garford Street in Limehouse that would be dramatically affected by the road.

Mead's proposals—which will be considered by the LDDC this week—are for a mixed private development of 50 flats

and workshops. The site is described as "very difficult" but with "great value as an interchange site".

His brief was later extended by the LDDC to include ways of replacing the housing lost by the

By Amanda Baillieu

road scheme, as well as modelling existing blocks to deal with noise of the road, both during and after construction.

But local residents, represented by the Limehouse Development Group, have not been told who will be paying for the new and improved housing.

The group's chairman, Richard Roberts, said the cost of improvements should be met by the Canary Wharf consortium or the Department of Transport and the LDDC. He said it was still a "very grey area" with a very real threat that evicted tenants could end up in bed and breakfast accommodation.

The group also wants to see the existing of the Limehouse Club and the community centre,

both of which would be lost if the road goes ahead.

But the consultants have not been asked to look at the impact of the new highway on Seifert's controversial office and housing development at Limehouse Basin.

While the LDDC has not made any public announcement on its position regarding Limehouse, LDDC chairman Reg Ward has been taking an active part in negotiations with the site's owner—the British Waterways Board—and the Limehouse Development Group and Tower Hamlets council to try to negotiate some off-site planning gain for the community.

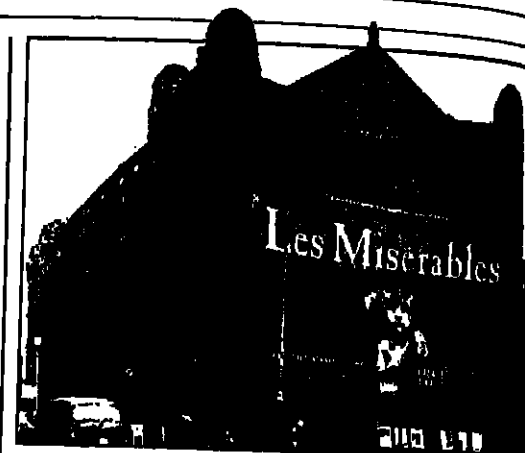
An offer made to the group in

early September for a parcel of land to the north of the Limehouse viaduct for community use was rejected as insubstantial.

The LDDC is still waiting to see Seifert's revised scheme, which has had to take the new road into account.

British Waterways Board architects are now known to be involved in the redesign. The BWB's annual report confirms that the Basin will not now be filled in. A spokesman from the board said the new scheme would be submitted for full planning permission by the end of the year.

The detailed plans would be released in stages, starting with the southern end of the site.



The Palace Theatre in Cambridge Circus is to receive a £100,000 triple-decker Victorian theatre needs extensive redecoration to the roof. Its terracotta facade on three decorative "pepper pot" domes will be restored.

Architects Jacques, Muir & Johnson have planned the performances of the hit musical "Les Misérables", now showing at the theatre.

The theatre was originally built for the D'Oyly Carte opera company in 1888 to 1891 with seating for 1,450.

MINISTERIAL approval has been given for the demolition of the low-rise blocks of the Divis Flats complex in West Belfast, which was recommended by the Northern Ireland Housing Ex-

ecutive. The D&J, Ireland minister, said the demolition of another partner, complex, the Rostell, Londonderry.

Another success on USM

EREMY Mackay-Lewis was able to pocket a tidy £1.5 million last week after the flotation of part of Whinney Mackay-Lewis on the Unlisted Securities

Market. The float raised a total of £2.6 million, of which £160,000 will be pocketed by another partner, Chris Cutton, while £760,000, after the expenses of the flotation have been deducted, will be injected into the business.

The shares opened at 175p to show a 150 premium on the issue price of 160p. As BD went to press, the share price had dropped slightly to 172p.

About 180,000 shares have been given to 60 members of staff in varying amounts according to length of service and seniority. On average this gift works out as being worth around £4,800 a piece.

Whinney Mackay-Lewis intend to use the money raised to buy new computer equipment, extend their premises, and possibly acquire an interior design firm.



Mackay-Lewis—happy.

Debate on RIBA job

RIBA presidential contender Ray Andrews has accepted a challenge from his opponent Rod Hackney to a debate.

Hackney called for a press debate, but Andrews wants it to be public so that members can ask questions.

He also wants David Rock to be with Hackney on the platform as they are running on a joint ticket—he would be partnered by Fred Roche.

Andrews suggests that the Jarvis Hall at the RIBA should be the venue and that November 11 and 13 are available dates.

Mackintosh lecturers protest

GLASGOW SCHOOL IN BUILDING DISPUTE

THE Scottish Education Department and the Mackintosh School in Glasgow are set to clash over plans for a new building to house the art department.

The majority of architecture lecturers at the school have signed a letter expressing concern to the director and asking for more information.

They are worried about the quality of the proposed building.

By John Wood

ing, but the school's options may be restricted by budget restrictions from the education department.

Originally there were plans for a competition to find a design for the building but these have been shelved because of cash restrictions.

Instead, the Glasgow Institute of Architects has supplied the school with a shortlist of three, with three other nominations from elsewhere. It has now been reduced to two.

The need for the new building

has been accepted for several years, but the first time lecturers heard of firm plans was by chance last month, during a conversation in the street.

A member of staff said they were looking for a building of the highest possible standard to match the quality of the Mackintosh School.

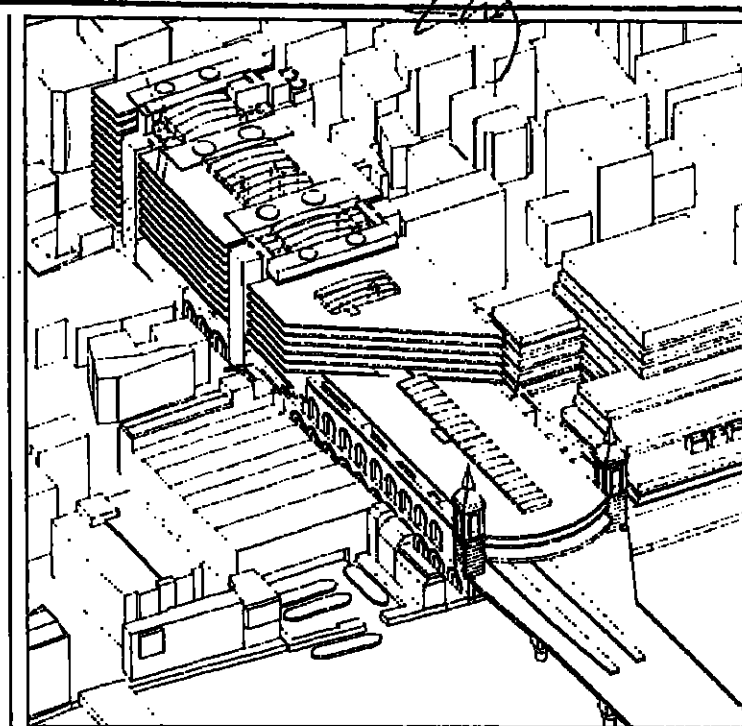
They are worried that restrictions on time and money could result in a smaller and sub-standard building.

The budget for the new building has been slashed because another building under construction for the education department is grossly over budget.

The lecturers hope the Government's commitment to design may help persuade the department to reinstate the original budget.

They also point out that Glasgow has just been named as the European City of Culture for 1990 and a fine addition to the Mackintosh would be a timely boost to the city's prestige.

Mackintosh director Thomas Pannell has responded to the lecturers' letter with an open memo to staff on the plans, pledging that the school's board will resist pressure from the education department.



Pictured: Building Design Partnership's competition-winning proposal to develop the air rights over Cannon Street Station in the City of London. If built to its fullest extent, it will consist of stepped blocks that diminish in height and bulk towards the river frontage where a three-storey box links the existing towers. Linked atriums run through the scheme, parallel with the tracks that will still operate below.

The project, designed with the aid of BDP's Acropolis 3D computer modelling system, fills the maximum envelope while retaining views across the site of St Paul's.

BDP won the limited competition with developer Spychak last August against Arup Associates, GVA Partnership, Richard Rogers Partnership, Scott Brownrigg & Turner and Seifert.

Air terminal set for residential scheme

BERKELEY House, the residential developer, wants to convert the 49,500sq m West London Air Terminal in Kensington on Old Brompton Road into a luxury residential complex.

Berkeley House has had its offer accepted by British Airways and has put in a planning application to Kensington & Chelsea for permission to convert the 1960s colossus, which was originally designed by Sir John Burnet Tait & Partners.

The initial reaction to a residential conversion was positive," said Berkeley spokesman Neil Squires, who heads the developer's planning department.

"We are investigating the complex structural aspects of converting the building and how to go about rehousing it."

Berkeley wants to create 423 flats in the block, ranging in size from studio units to three-bed apartments.

The developer is using in-house architects at the moment to prepare its scheme.

Another winner

JAMES Stirling, Michael Wilford & Associates have won the limited competition for a new gallery at the Villa Favorita on Lake Lugano.

It will contain Baron Thyssen's unique collection of 19th and 20th century art, part of which was exhibited recently at the Royal Academy. The 2,300sq m three-storey gallery, entrance, reception, workshops and store will connect with the existing Old Masters Gallery.

Stirling won the commission against Atelier 5, Mario Botta, Hans Hollein and Ruch & Huesler.

Lloyd's view

THE Lloyd's visitors' room, giving unimpeded views of 12 floors in the Richard Rogers' building interior, will open to the public on November 3.

The room is reached via an external glass climber lift which takes the visitor through an audio-visual history of Lloyd's.

Shape of offices to come

COMPANY "villages" will be the office buildings of the future according to a report by architects Scott, Brownrigg & Turner, and PE Consulting Services.

The 4,000 word report, *Workplace 2000*, says the UK lags well behind other countries in providing up-to-date office accommodation.

Central London offices developed between 1948 and 1963 were designed and built to standards that now seem almost "neo-

litic", claims the report. The corporate village would feature shopping centres, banks, restaurants with subsidised food, gyms and keep-fit units, relaxation areas and car parking.

The report says that since new offices will be designed for efficiency and equipped with labour-saving technology, many companies could reduce their support staff by 50 per cent without a noticeable drop in efficiency.

New head for Hull school

THE new head of the Hull school is Dr Tom Woolley of the Strathclyde school, who will start on January 1, replacing Vernon Gracie who has resigned to devote more time to his private practice.

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Aalto's opera house



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There's a certain logic somewhere...

WHEN is a building not a building? When is a structure—or so the DoE for Northern Ireland would have you believe. In scenes reminiscent of the best of Rumpole of the Bailey, the department put forward this unusual proposition during a planning appeal this week—and the whole court fell about laughing.

This piece of semantic wizardry was its interpretation of Article 31 paragraph 7 of the Planning Order (identical to Article 34 paragraph 9 of

England's Town & Country Planning Act).

It states that any object or structure fixed to a listed building, or forming part of the land and comprised within the curtilage of a listed building, is part of the listed building.

However, the department's legal experts decided that listed planning consent was not necessary for the demolition of a coach house within the curtilage of a listed building because it is not a structure or object—it was a building.

Final agreement near on EEC recognition

MUTUAL recognition of architectural qualifications within the 11 member states of the EEC could soon become reality.

As BD went to press Arcuc was considering what could prove to be the final draft of the

EEC directive requiring EEC member states to recognise each other's architectural qualifications.

Once adopted, the directive should enable architects to move around the EEC and work in different countries with greater ease through the community.

The Privy Council will produce the necessary legislation once the draft directive has been finalised.

Go-ahead for BDP proposal

BUILDING Design Partnership's £60 million retail complex to replace Whiteleys store in Bayswater has been given detailed planning consent.

The scheme will retain the Grade II-listed facade, but the housing and library included in earlier plans have been dropped.

... signing off...



THE FALSE TENOR

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Piano's adventurous performance

Ian Latham on Renzo Piano on the new Menil Museum in Houston. Photo: Geoff Beeckman.



Renzo Piano: "Each scheme is a new adventure".

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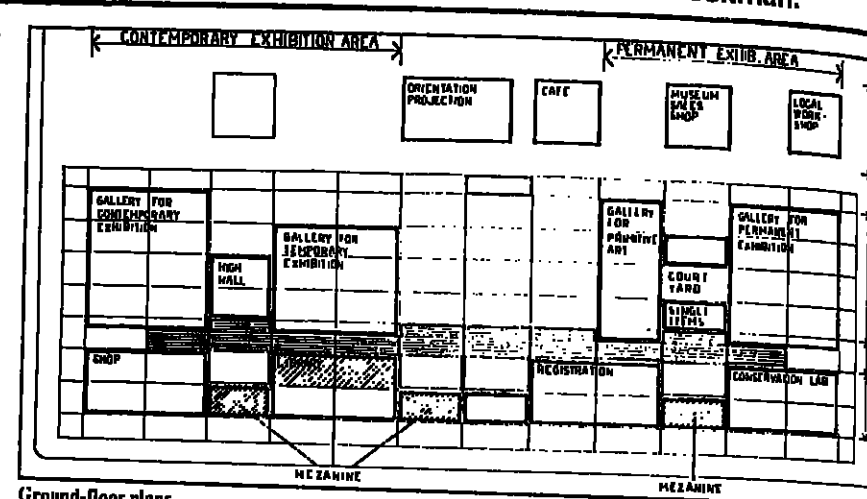
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Rogers remembered the "wonderful years" of the partnership and the astonishment at winning the Centre Pompidou

competition after their engineers Arups had bullied them into submitting. For him the seven years of bringing the project to fruition was a remarkable learning curve of both architecture and life, and from Piano he learnt a concern for the pieces and components that make up architecture and give a "real freedom" that goes beyond image, decoration and monumentality.

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Other than the fact that the Menil Museum is an art gallery, the differences with the Pompidou could not be more marked.



Ground-floor plans.

Firstly, the scheme is for a client with a fixed brief and definite ideas about architecture: "I want to make a building that is small outside and big

inside," Menil told Piano. A monumental building was not required—rather a self-effacing scheme with interiors of domestic intimacy and emotion. Changing exhibitions will feature only a small percentage of the collection at any one time and spaces top-lit and single-storey.

The site is in a suburban park surrounded by lightweight timber-framed and clad houses which Piano felt should be respected, and reflected, in the form of his building. And whereas Pompidou was conceived as an inspired idea for a competition, Menil is the result of exhaustive study and research entailing the construction of full-size mock-ups, and its success lies in developing a close level of understanding with the client.

For Piano, the project has grown with his appreciation that architecture is about air, movement, light and sound, and not just walls, floors and ceilings.

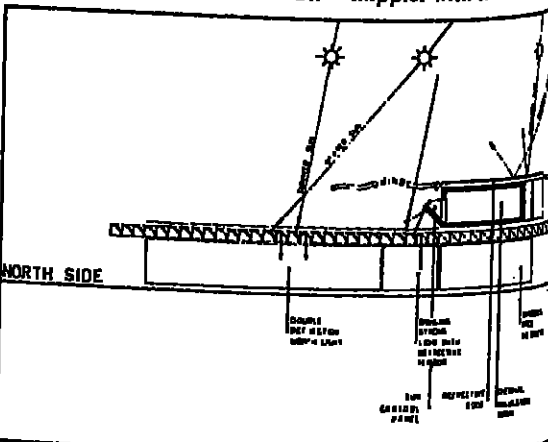
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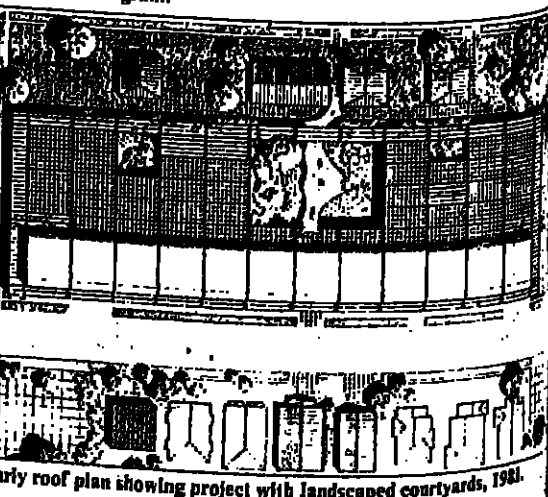
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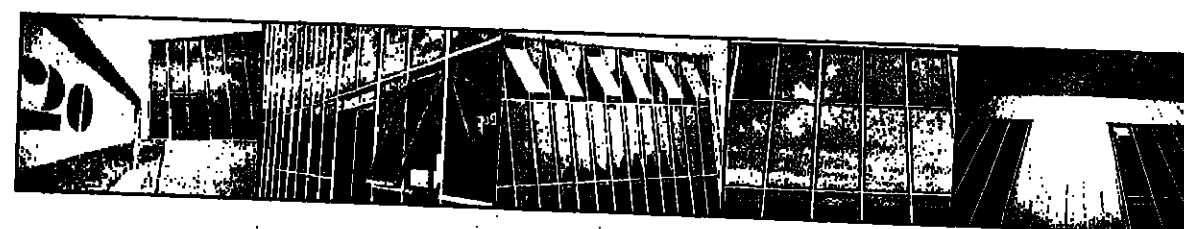
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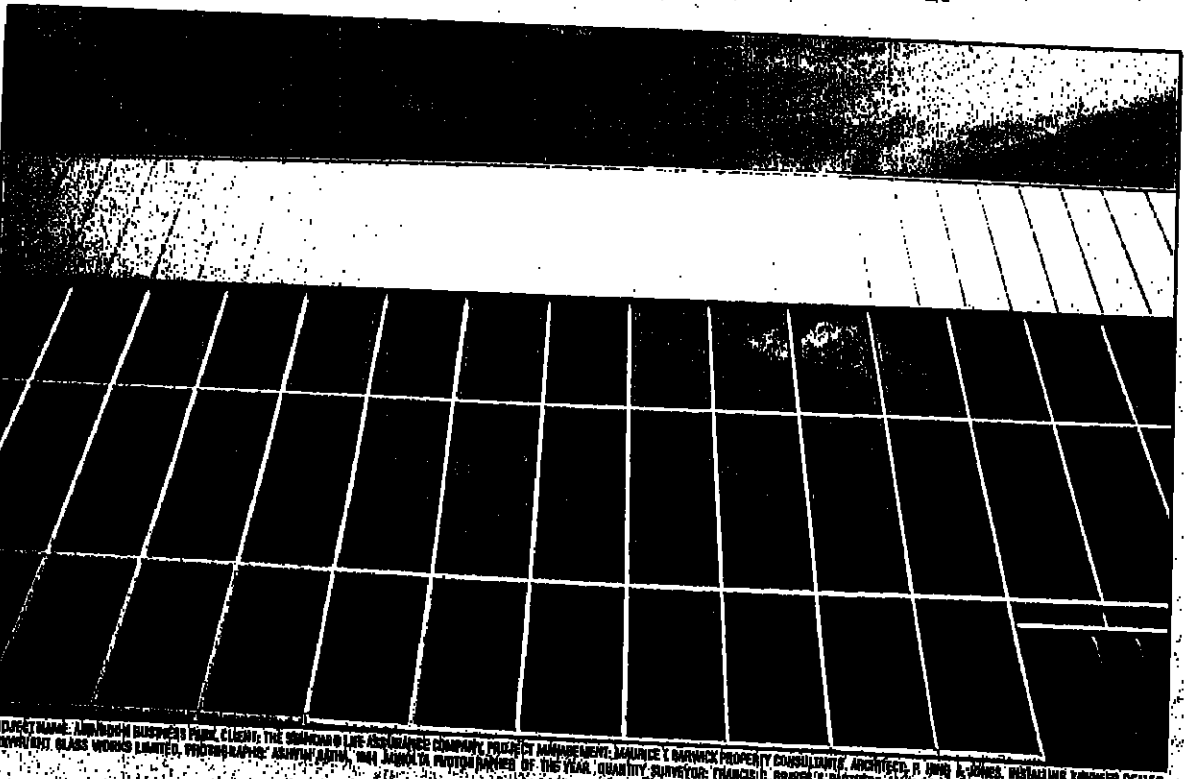
Sun control diagram.



Early roof plan showing project with landscaped courtyards, 1981.



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TRADE TALK

FORWARD INTO '87

Following the marketing successes of 1986 here at Armitage Shanks we're delighted to bring you this preview of our plans to make 1987 an even better year for us all.

Of course, the main news at the moment is the opening of our massive new storage and

distribution complex which brings our ordering and delivery service bang up to date using the latest sophisticated microchip technology.

What's more, our continuous new product development programme has created a new Budget IPS system, further improved our quality brassware range and enabled us to introduce a new SuperSpa warm air spa bubble bath system, which brings unique refinements in safety and comfort to existing technology.

We've also a report on the changing attitudes in bathroom decor which shows the importance of taking a fresh new look at bathroom colours.

All in all, 1987 promises to be an even better year all round, so read what's happening at Armitage Shanks right now and look forward to a brighter, more prosperous New Year with the one you know best.



THE BATHROOM BULLETIN

Not very many years ago the British Bathroom was a cold uninviting room "designed" to be purely functional.

It was no surprise then that its use was kept to a minimum, restricting the average adult's dip in his white enamel bath to once a week!

In more recent years, however, with the advent of central heating, complemented by the introduction of coloured suites by manufacturers, led by Armitage Shanks, the bathroom has become a much more inviting place in which to relax.

Indeed the average Briton now spends up to 25 minutes soaking in the bath as much as four times a week.

Heavy consumer advertising by Armitage Shanks and others has increased consumer awareness of the developments in the bathroom and has obviously contributed to the huge growth in the bathroom refurbishment market.

However, another factor is the boom in home ownership in Great Britain over the past few years culminating in over 14 million privately owned homes which includes the addition over the past six years of nearly one million council houses which have been privatised.

These factors together have resulted in a bathroom refurbishment and DIY

market accounting for over eight billion pounds worth of expenditure in 1985. The major British bathroom manufacturers have not been slow to recognise the potential of this enormous market. By constantly reviewing their product range and by being in the forefront of new suite, designs and colours, together with fashionable accessories and brassware, Armitage Shanks in particular has assured that this consumer demand is being fulfilled.

Another major development in the bathroom market has been the increase in separate bathrooms, en suite bathrooms and shower rooms.

Showers in particular are currently the fastest growing sector of this market with over one million installed in 1985 out-selling baths by nearly 20%.

The total shower market alone is now put at over one hundred million pounds.

However, the potential for the bathroom market has never been so good with a large percentage of home owners yet to upgrade their bathroom.

Together with the continued introduction of new products and colours and their heavy promotion to the consumer by Armitage Shanks and other British manufacturers, the outlook for the British bathroom market looks bright.

RENOVATIONS BY TENURE GREAT BRITAIN

| | Local Authorities 000s dwellings | Housing Associations 000s dwellings | Owner Occupiers 000s dwellings | Private Landlords 000s dwellings | Total 000s dwellings |
|------|-------------------------------------|--|-----------------------------------|-------------------------------------|-------------------------|
| 1979 | 111 | 20 | 69 | 13 | 213 |
| 1980 | 100 | 18 | 80 | 15 | 213 |
| 1981 | 79 | 14 | 76 | 15 | 184 |
| 1982 | 108 | 21 | 122 | 23 | 274 |
| 1983 | 126 | 18 | 279 | 40 | 463 |

Source: Department of Environment

FREQUENCY OF TAKING A BATH

| | SEX | | AGE GROUP | | |
|------------------------|---------|-----------|-----------|---------|----------|
| | Males % | Females % | 15-34 % | 35-54 % | 55-65+ % |
| Base: 1,520 adults | | | | | |
| Daily | 15 | 27 | 25 | 23 | 16 |
| Every other day | 30 | 33 | 35 | 28 | 30 |
| Once or twice a week | 34 | 26 | 23 | 31 | 37 |
| Less than weekly | 4 | 4 | 4 | 6 | 3 |
| Never (only shower) | 15 | 9 | 13 | 11 | 12 |
| Average baths per week | 3.28 | 3.97 | 3.95 | 3.56 | 3.30 |

Source: Audience Selection/Cussons Pearl

TECHNOLOGICAL MASTERPIECE UNVEILED!

This month Armitage Shanks unveiled a new £6.5 million warehouse complex at their headquarters at Armitage, Staffordshire; one of the most innovative and technologically advanced storage and distribution centres in the World today.

The warehouse, officially opened on October 1st 1986 by Sir John Milne, Chairman of Blue Circle Industries, represents the latest in automated handling systems with a computer controlling the receiving, storage, retrieval and delivery for a vast range of products. It will handle up to 300,000 items of sanitaryware in 5000 different product variations; plus 22,000 baths, 50,000 taps or brassware components and thousands of other items such as basins, bidets, shower trays and accessories.

To get an idea of the sheer scale involved, the warehouse covers 11,500 square metres with seven computerised cranes, travelling between the 28 aisles of storage racks. These product storage areas are located in four 15 metre high bays, and on the ground floor in the loading areas there are no less than 19 bays for delivery vehicles.

All of this equipment is controlled centrally by the computer system, but three cranes are manually controlled, serving three aisles for individual product selection of short run items.

The new warehouse means that Armitage Shanks has the capacity to deliver thousands of products to hundreds of their customers

every week. To back up this extensive distributive capacity, the computerised system has been designed to generate all the paperwork needed. Stock levels are monitored and controlled, orders assimilated, invoices produced, and debts recorded on a sales ledger. All the paperwork necessary to accompany each delivery is automatically issued as the order is loaded for transporting.

The distribution complex represents the culmination of a £30 million development programme spread over five years. The programme began with the building of a new sliphouse and extended into battery casting—an Armitage Shanks patented process. Next on the agenda was the introduction of automatic electrostatic glaze-spraying, computerised handling of work in progress and the construction of energy efficient kilns. Now automatic product storage

and distribution capabilities set the seal on Armitage Shanks' reputation as the most advanced company in the industry.

Armitage Shanks is owned by Blue Circle Industries and their Chairman, Sir John Milne commented; "It was a pleasure for me to be invited to dedicate this new warehouse complex officially open. This ceremony is particularly significant as it marks the completion of a major investment programme, which we believe puts Armitage Shanks in the forefront of the sanitaryware and bathroom products industry."

It brings together all that Armitage Shanks have achieved in improving production, quality and increasing efficiency for the benefit of the customer, and will help to streamline the whole distribution process. It is also a symbol of Armitage Shanks' dedication to the customer and their determination to stay ahead of the field," he concluded.



Piano's adventurous performance

Ian Latham on Renzo Piano on the new Menil Museum in Houston. Photo: Geoff Beeckman.



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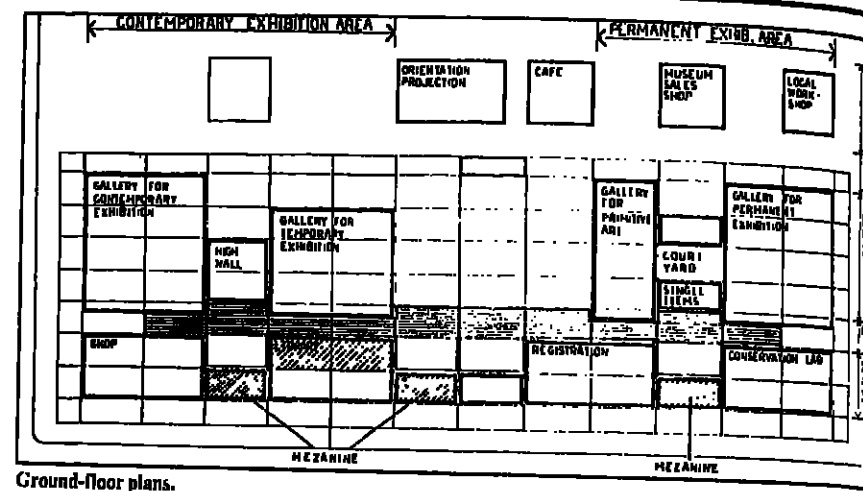
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Proposals on listed churches disappoint

PROPOSALS for minor changes to the freedom of working churches from listed building controls have disappointed the Historic Buildings & Monuments Commission.

Government amendments to the Housing and Planning Bill in the House of Lords will require denominations other than the Church of England to obtain listed building consent before changes are made to their working churches.

But the Church of England — which owns the vast majority of the 16,000 listed church buildings in England and Wales — will retain ecclesiastical exemption.

Instead, the environment secretary will be able to call a non-statutory local public inquiry into proposals to alter its churches, and if necessary recommend that the church is vested in the Redundant Churches Fund.

A spokesman for English Heritage said: "The proposals are a limited step in the right direction, but certainly do not go as far as we would like. We always wanted to end ecclesiastical exemption."

Student poser

LIMEHOUSE Basin in east London has been chosen as one of four workshop projects at the student section of the UIA conference in Brighton next year.

Workshop organiser John Turner said Limehouse has been chosen because "it presents an actual situation where there is a real need for alternatives to be worked out".

Conference boost for the minorities

A MAJOR reshuffle in the programme of the "Building Communities" conference has given minority groups a much greater role.

On Wednesday evening an event called "Work in the Community" will include contributions from Broadwater Farm residents and Bristol Women's Work.

The Thursday session, which opens with a keynote address by Prince Charles, will include representatives from the National Council for Voluntary Organisations and the Anti-Racist Consortium.

The Association of Community Technical Aid Centres (ACTAC) will be represented by two speakers from community projects.

Two establishment figures

Tokyo office space now world's most expensive

TOKYO is now the world's most expensive office location, the first time it has outstripped the City of London or mid-town Manhattan.

A survey by property consultants Weatherall Green & Smith puts rents, rates and service charges in the Marunouchi district at £76 per sq ft, compared

with £63.25 for the City, and £52.85 for New York.

The jump in Tokyo costs is explained by currency factors and a 10 per cent increase in real terms.

Meanwhile, costs in London's West End have jumped 15 per cent in 12 months to reach £47 per sq ft, says Weatherall's.

News

Hull unveils major initiative to rebuild its housing stock

HULL City Council has unveiled a five-year housing initiative costing £34.3 million.

It will involve building 2,500 houses and refurbishing more than 18,000 council-owned properties.

Although the plan starts in 1988, pilot schemes are under way and the council is gearing up its architecture departments.

The city's chief architect, Ian Colquhoun, said that around 50 architectural staff would be recruited, including architects, surveyors, engineers and other consultants.

The most ambitious part of the scheme involves the reclamation of 60ha of derelict land in Victoria Dock, costing £12 million just to create the right ground conditions.

Up to 1,500 homes could be built in this area, with another 770 in the Drypool district next to the site of the RIBA's dormant Cudat.

Pilot schemes under way include refurbishment work which will allow the council to assess the effectiveness of repairs over two winters before the full scheme starts.

The plan involves replacing 975 prefabs and 380 prefabricated reinforced concrete dwellings, mainly with council bungalows.

Six hundred pre-war homes a year will be modernised and 1,000 a year will be re-wired.

It aims to provide 500 new homes a year, but this depends on the reclamation of the dockland.

Grants will also be provided to modernise up to 1,200 private properties a year, and subsidies will be provided to housing associations for new development.

By John Wood

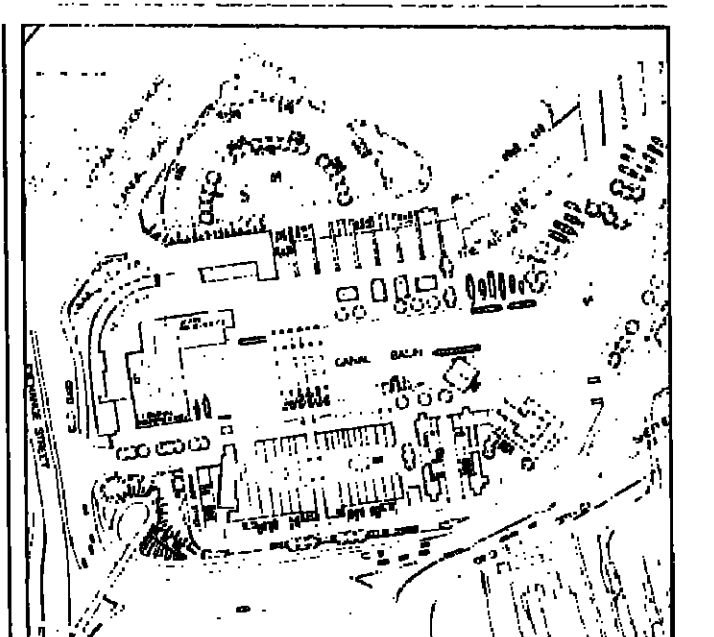
Associated with the initiative will be a training scheme to help provide the skilled craftsmen required.

Together with the Manpower Services Commission, Con-

struction Industry Training Board and Hull College of Further Education, the council plans to provide a two-year course for Y1 trainees, emphasising on-the-job training on the Drypool site.

The scheme may require the extension of the council's statutory powers to allow large-scale regeneration schemes to be implemented at municipal level.

Housing committee chairman John Black believes the scheme would be supported by any government.

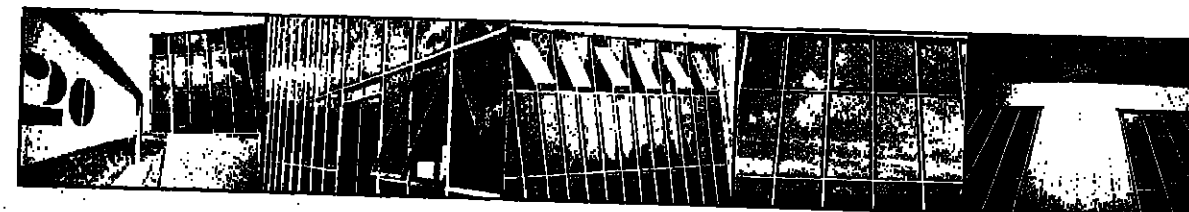


Canalside revival plan

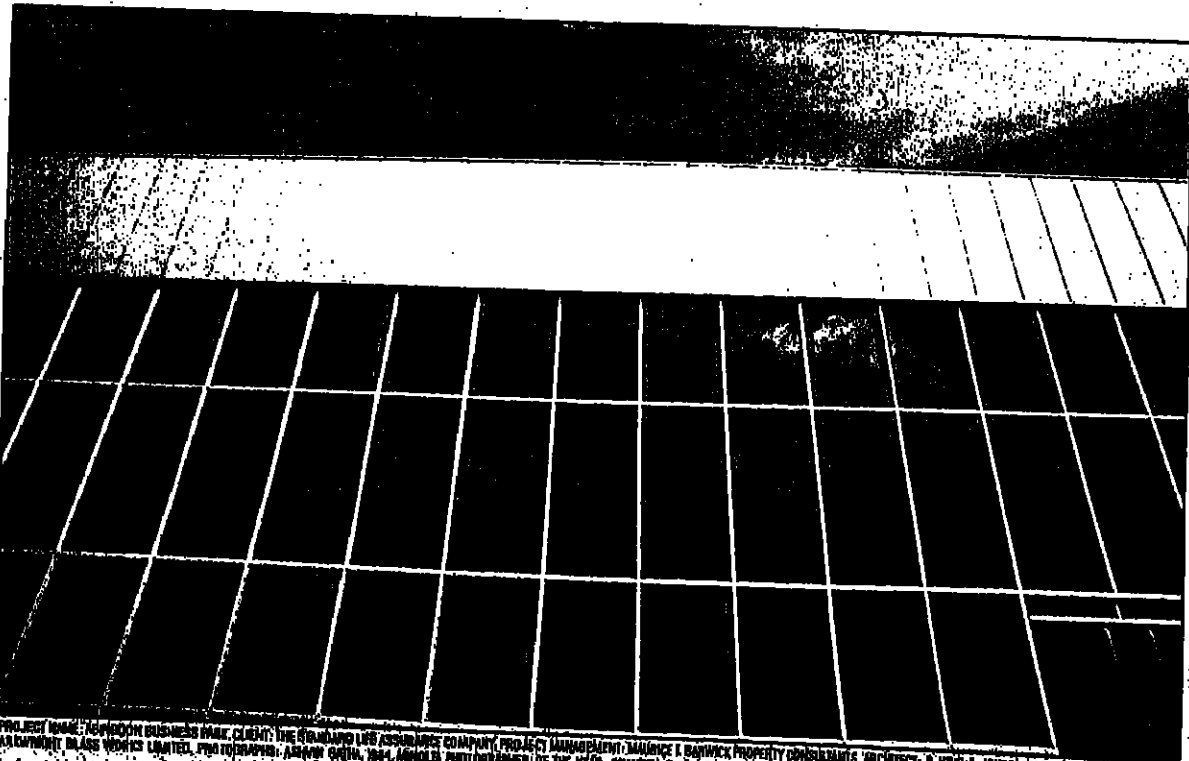
THE £10 million first phase of a scheme to transform Sheffield's Canal Basin was unveiled this week.

The proposals, by Telford Cawkwell Davidson & Partners, are based around three listed warehouses which will be used to house a pub, restaurant, wine bar and other leisure facilities.

The first phase will also provide office and housing units.



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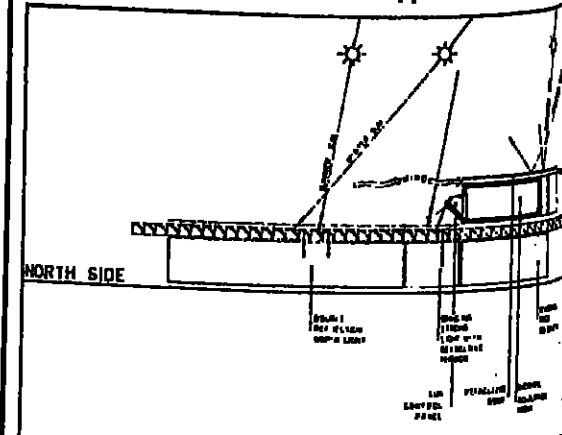
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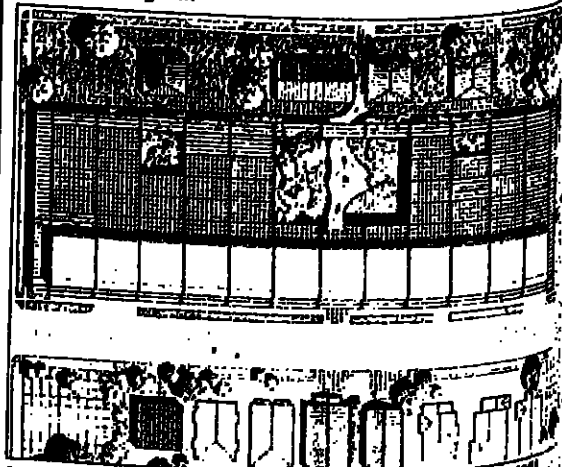
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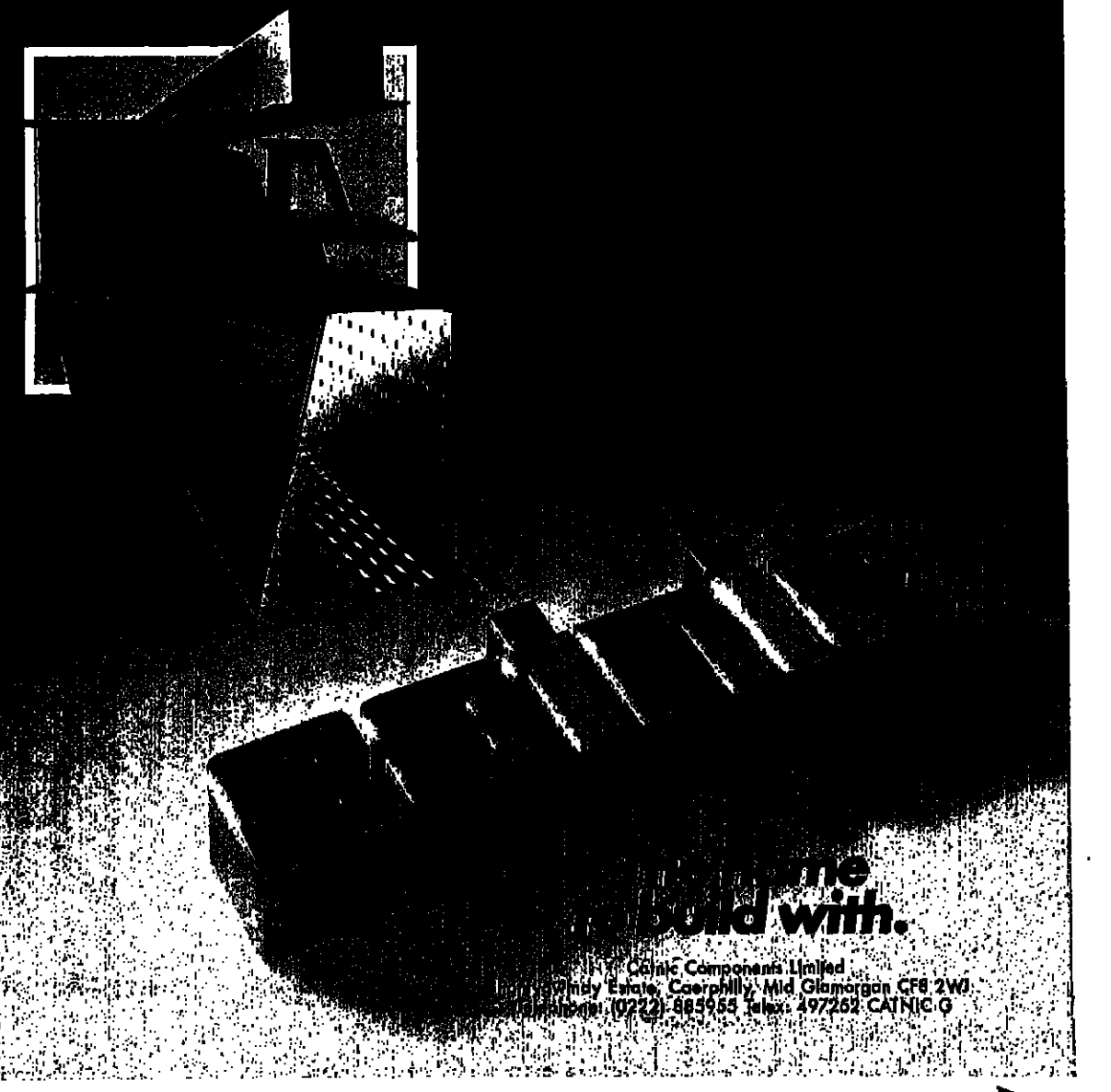


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Council accused over pub demolition

A BIRMINGHAM Labour councillor has accused his own council of deliberate vandalism in a row over the planned demolition of a listed former public house.

Councillor Stewart Stacey said planning officers had deliberately allowed the historic pub to become derelict to help make way for the proposed £121 million Birmingham International Convention Centre.

Members of the conservation areas' advisory committee had heard on October 14 that the listed Eagle Tavern, on land bounded by Sheepcote Street, Oozells Street, Oozells Street North and Cumberland Street, had been closed and left to the vandals so that special permission would not be needed to knock it down.

The committee was asked to give approval for the demolition of listed buildings on the site and to back National Exhibition Centre Ltd, which is planning to build a national indoor arena on the land as part of the convention centre.

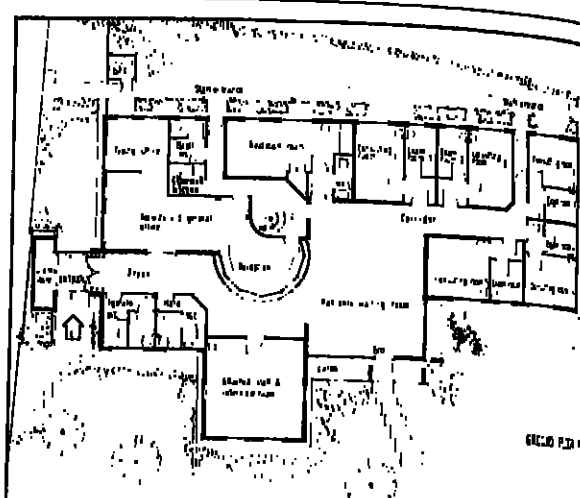
Stacey said: "This committee is left with no decision to take because the building is not there."



Medical moves

This is the Oaklands Middlewich Medical Centre in Middlewich, Cheshire, designed by architect Imre Burjan and handed over in August. Burjan was commissioned by four local doctors to provide more adequate accommodation for them.

The architect's design provides five consulting and examination rooms, a fully equipped treatment room for minor operations and space for physiotherapy and ante-natal clinics. The focus of the centre is a large waiting room and reception, backed up by administrative offices. A kitchen, shower facilities and rest room for the staff are found in the roof space.



Georgians back Krier's scheme for Spitalfields

THE Georgian Group has given its blessing to Stuart Lipton's rival scheme for the prestigious Spitalfields Market site in east London with a masterplan by Leon Krier.

Krier's proposals were shown to the group last week, after a presentation of the scheme had already been made to Tower Hamlets planners.

In a letter to Leon Krier, group secretary Roger White said they had "no adverse comments whatever to make about his scheme."

He praised Krier for following the Tower Hamlets development brief and said, if executed, it had the potential to be "the most exciting development in London for many decades".

In another letter to Richard McCormack, the architect working for developer London & Edinburgh Trust, the group said it could not support his scheme at present, because it does not observe the criteria laid down in

the development brief. The group's surprise announcement follows an earlier statement (BD August 22/29) when it denied backing Lipton.

White attempted to distance himself from the Lipton scheme after an article appeared in the *Economist* saying that Lipton had approached the group to win its support. He said at the time the group would "remain open-minded".

Krier's scheme has been described as "carefully thought through", following the existing street matrix with "many inter-

esting ideas for key buildings on the site".

Tower Hamlets says it is lower density and lower rise than LET's scheme.

But a council officer said: "We will need to see a lot more supporting detail. We can't be seduced by fancy names at this stage in order to tempt us to giving them outline planning permission."

Lipton has refused to release details of Krier's master plan, and cannot confirm how many of the architects on his original list have been approached.

Rent plan under fire

NEW Tory "right to a policies have been slammed: an anti-homelessness group for offering few to tenants."

The Campaign for the Homeless and Rootless has built its own Housing Rights which will grant a legal right of accommodation, with standards, and security.

Pool winner

DUNFERMLINE architect Oliver & Robb have won competition to design a swimming pool complex at Andrews, Fife. North East District Authority set up competition. Their design submitted along with the other Group of Livingston tender to develop the scheme.

Patten demands better training

HOUSING minister John Patten has called for better training in the construction industry to meet foreign competition.

Speaking at a meeting of the National Contractors' Group, Patten said he was so concerned by the state of training that he intended to set up a forum to discuss the matter.

He congratulated the industry on improvements in productivity over the last seven years, illustrated in the recent NCG report comparing performance of the UK and US construction industries.

But he warned: "This is the time to be complacent. We study shows that we are still 10 per cent slower than the Americans."

He also cited other European competitors: "The fall in pre-emptives in the industry has been dramatic — more than 14,000 in 1980 to less than 10,000 in 1985. Surely when shortages are being increasingly widely reported, there is a better time to invest in the quality of your workforce taking on trainees."

Chunnel link views heard

EVIDENCE against the siting of the Channel Tunnel terminal at Waterloo was being heard by a Commons Select Committee this week.

Lambeth council's case was heard yesterday. Wandsworth, Kensington & Chelsea, Ealing and Hammer-smith & Fulham councils will be heard on Wednesday October 29.

Heinz show slide sets

WORLD Microfilms Publications has released two more sets of slides of recent exhibitions at the Heinz Gallery.

London: Images from the Modern City and The Art of the Architect are available in 16 colour slides with accompanying text for around £150 each. Further details: World Microfilms Publications, 01-39 3092.

Four practices prepare major refurb for Oxford

MAYFAIR & City Estates has asked four architects to prepare outline schemes for the refurbishment of the 2,000sq m Cowley shopping precinct in Oxford.

The identity of the four firms is being kept secret, but a Mayfair & City spokesman told BD that one of the four had already been chosen to work up further details. If the developer approves

these, the name of the chosen architect will be revealed.

Mayfair & City has agreed to buy a lease on the shopping precinct from British Land, which has recently applied for planning permission to demolish new shops and create a new entrance and fit canopies over the malls.

Mayfair & City hopes to submit its own planning application early next year.

Scientists urge better information on quakes

INFORMATION about British earth tremors and prediction techniques is inadequate, according to research by the International Seismological Centre.

The centre says better national seismic monitoring and information services are needed. It also recommends that organisations in both public and private sectors undertake seismic risk studies.

The centre has been reviewing seismic investigation requirements for the DoE since 1982. The department says it has an interest in geological factors which affect planning of land use and development.

Occasional large earth tremors may have implications for some types of building, construction and industrial processes — for example coal mines and nuclear power stations.

In 1982 the DoE commissioned the British Earthquake Research Group to establish a mobile seismic monitoring facility, supported by the National Coal Board and Nuclear Installations Inspectorate.

Company opens well

DESIGN Works, a new company based in Warwick, has won contracts worth £1½ million in its first month of operation.

Two local architects, John Corstorphine and Tom Wright, formed the company with Oliver Cockell, ex-associate director of the Conran Design Group.

They will redesign and refurbish Warwick University's social facilities, a contract worth £750,000, and go on to design a new restaurant for the arts centre there.

The ICI (Pension Fund) has commissioned the company to create a new image for the Wessex shopping centre in Bournemouth. It was originally designed by Corstorphine and Wright three years ago, but lack of finance prevented its completion. The revamp will cost £600,000.

Firm offers warehouse planning service

LOGISTICAL analysis can help an architect design more efficient warehouses, says distribution-efficiency specialist, Davies & Robson.

The company has introduced a technical support service for industrial architects providing computer software to simulate alternative warehouse layouts

Tenants upset by council 'brick wall' on demolition plans

FOUR Ronan Point-type tower blocks in Gateshead are to be blown up next year, but the local council has been criticised by tenants who claim they have been kept in the dark over the demolition plans.

People living in 140 low-rise maisonettes on the Nursery Lane Estate are worried about safety measures and cleaning up procedures when the Taylor Woodrow-Anglian blocks are demolished.

They say they have encountered "a solid brick wall" when asking the council what is to happen on the big day.

Main fears are the amount of dust generated by the collapse, security measures for evacuated homes, asbestos, and damage to the maisonettes closest to the blocks.

Demolition expert Ogden, which will be blowing up the four 16-storey towers next spring, have told tenants there will be very little dust and no damage to nearby homes, which will have to be evacuated on the day for safety reasons.

Tenants are not convinced and are demanding that the Labour-controlled council should be more open and tell them exactly what is going to happen.

The first stage of demolition work has already started on the two 4-storey and two 9-storey blocks of Larsen Nielsen-built flats on the estate, which was designed by disgraced architect John Poulson and built in 1967/68 by TWA.

Stage II — the demolition of the towers — follows next spring and the council plans to clear the site and landscape it.

Part of the cleared area will be sold for private-sector development, but the council has told tenants that the low-rise homes will stay.

● The London Borough of Newham is appealing to the

Government for extra cash to carry out a scientific dismantling of one of the Ronan Point type B blocks built after the building collapsed in 1968.

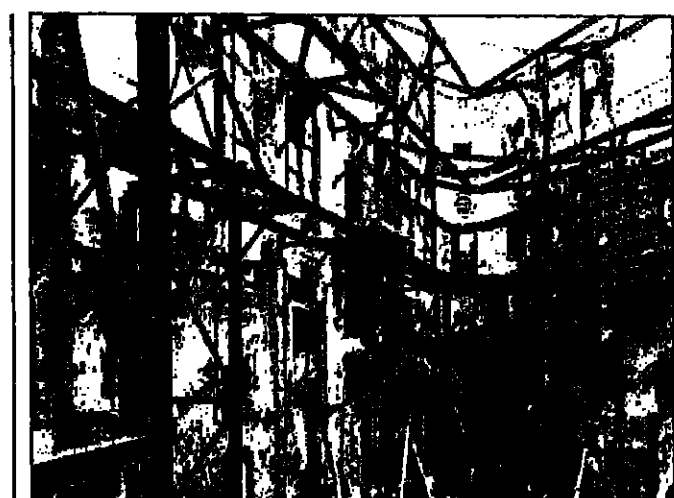
Engineers for TWA claim the modified design could be as bad.

Housing chairwoman Jean Reeves and council leader Fred Jones want to carry out a "limited Ronan Point examination" to discover its strength.

A council spokesman said the borough decided to demolish another block on the TWA-built Freemasons estate but cannot afford to do so.

A decision to demolish the 215-dwelling James Sinclair Point because of structural problems has further restricted the borough's housing reserves.

By Alan Thompson



Putting on a brave face

The elaborate 1885 listed facade is all that remains of the famous London Pavilion on the eastern side of Piccadilly Circus.

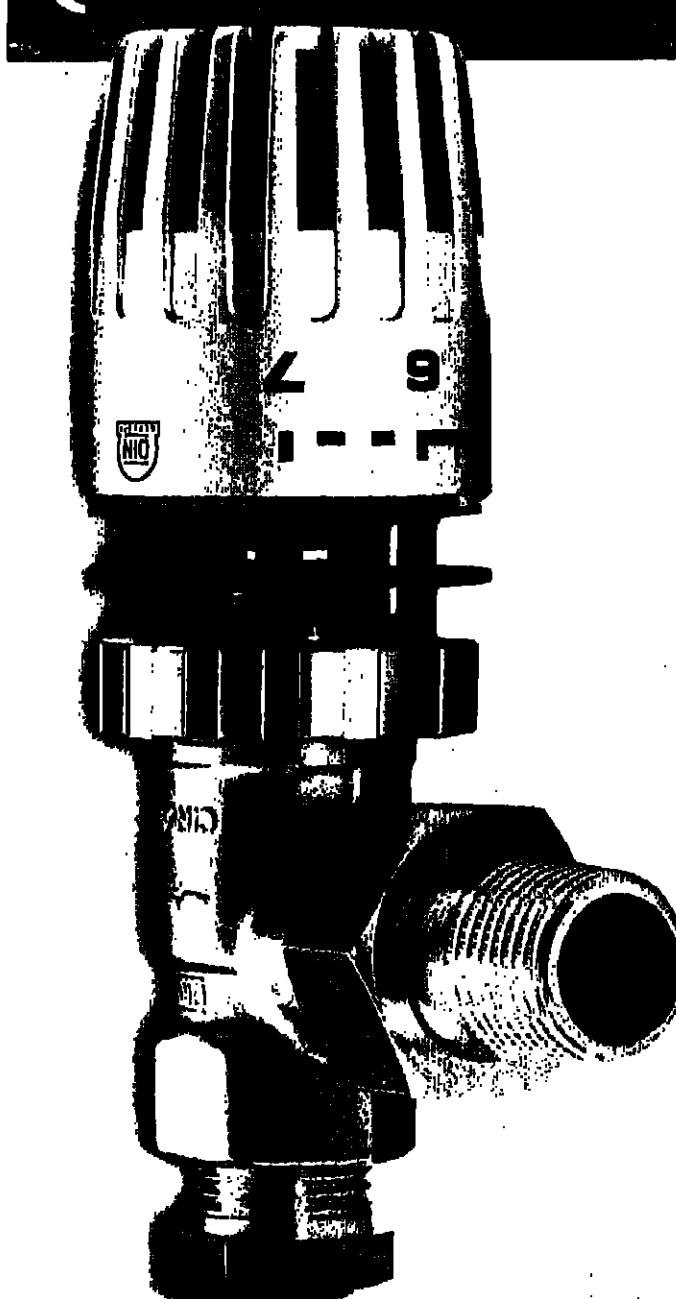
Behind the facade this temporary restraint system has been installed, a practical and innovative method of support, doing away with the need for external scaffolding. The prefabricated steel frame occupies less than 15 per cent of the working area, and means that restoration work can start

earlier. The next stage of the 96-week contract is the construction of 341 piles, 500mm in diameter and 20m deep, to support the new structure.

The opening of the new development, a major retail and leisure complex, is planned for summer 1988.

The architects are Chapman Taylor Partners, design consultants Conran Associates, and developers are Grosvenor Square Properties and Kennedy Brooks.

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California safety action

CALIFORNIA has become the first state to adopt minimum standards to protect office workers from the pollution effects of stagnant air, chemical fumes, and other health hazards in office buildings.

The new California Occupational Safety & Health Administration rules mean that owners of office buildings or other workplaces must keep ventilation systems in operation during all working hours and that ventilation equipment be operated and maintained to local community building standards.

Cal - OSHA issued warnings to building owners that "the office building danger to employees comes from the build-up of low-levels of such harmful substances as formaldehyde from insulation and furniture, radon from building materials and asbestos fibres from tiles.



THE 17th century Swarkestone Pavilion in South Derbyshire has been restored at a cost of £120,000 with Rodney Melville & Associates as architects. The work included constructing new lead roofs, and the installation of an oak staircase and modern kitchen and bedroom facilities. The pavilion is now being let as a holiday flat by the Landmark Trust.

Conservation could turn Britain into a museum — Ridley

CONSERVATIONISTS who would turn Britain into a "museum of preserved old buildings" have been criticised by the environment secretary, Nicholas Ridley.

Speaking at the Royal Society of Arts conference on "The future of the public heritage", he said conservation of our architectural heritage should allow for change as well as preservation.

He urged people to show their confidence in new architecture and said: "Imaginative new

buildings can live perfectly happily alongside older buildings — provided they are well designed and follow fundamental architectural principles of scale and the proper arrangement of materials and spaces.

By John Wood

and show respect for their neighbours."

Some old buildings had suffered from inappropriate or clumsy treatment, he said, calling for training in traditional skills to help in their preservation.

He cited two Property Services Agency projects, the rehabilitation of Fort George and the Theatre Museum in Covent Garden, as good ex-

amples of preservation.

Ridley also revealed he had asked the Property Services Agency to review the building owners to see if some could be sold to the private sector.

All its buildings, fine galleries and museums by government offices, would be included in the review. Old Royal palaces and parks would be excluded.

"There is no intrinsic reason why buildings and parks should be in the public sector," he said.

"There is no need for grounds — many of the buildings in Britain are privately owned. It should be our responsibility to test whether publicly owned buildings are not sold to the private sector — and vice versa."

Spitalfields group wins consolation

LONDON borough of Waltham Forest has granted the Spitalfields Development Group (SDG) planning consent for its new fruit and vegetable market (BD September 19) at Temple Mills, Hackney Marshes.

The consent is a small consolation prize for SDG, which was told last week by the City Corporation to wait in line with everybody else to redevelop Spitalfields market.

Elson Puck & Roberts (EPR) have designed SDG's 31,400sq m market building which features three internal roadways — sufficient, says EPR, to serve 100 traders.

SDG claims the market traders "want to move to Temple Mills", but at last week's City Corporation meeting announcing its rejection of the SDG bid, Charles Lodmore, superintendent of Spitalfields market, made it clear that the traders had not agreed to a move to Temple

Mills. SDG maintains that its content is further advanced than the City's — although a large discrepancy between the office content of its scheme and that required by Tower Hamlets planning brief for Spitalfields. Peter Beckwith of SDG said: "I'm genuinely optimistic about the differences between us and the City."

Rosehaugh Stanhope, SDG's ardent competitor for Spitalfields to date, is putting finishing touches to its plans for a new market at Stratford, on land owned by British Gas, British Rail and the Stratford market traders who would share the site with the Spitalfields traders.

Rosehaugh Stanhope is in control of 2.5ha of the 14ha off Burford Road. Its scheme, designed by Fletcher Ross, should go before Newham planners in a couple of weeks.

White on the blacklist

THERE is no place in the picture postcard village of Great Tew, Oxfordshire, for modern white paint.

So says English Heritage, which has carried out a study of the colours used historically in the Tew (the next village is Little Tew). The study is to help West Oxfordshire District Council work out an external painting colour code to protect the local character.

The council has applied to the DoE for stricter control over

minor developments in black Great Tew which, if granted, will make planning permission necessary for garages, gates, outbuildings, access ways, or Councilors also want to make code to control colour schemes on the exterior of properties. English Heritage recommends three colours — timber, brick or broken fawn for the joinery and masonry for ironwork. After much research, the organisation said white should not be allowed.

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Industry starved of building graduates

UNIVERSITIES and polytechnics are supplying only half the graduates the building industry needs to train as managers, say the Building Employers Confederation and the Chartered Institute of Building.

Their report says that over the last two years the number of building degree courses has fallen from 22 to 19, and that all the losses have been in universities.

Sir James Lighthill, chairman of the CIOB and BEC's joint committee on higher education said: "The higher education system must recognise the requirement for a massive increase of places on degree courses."

He called for a concerted effort to expand student demand for places on building degree courses, and urged the building industry to accept the responsibility of stimulating this demand.

The report sets out a strategy to double the number of graduates to between 750 and 800. It suggests the following measures:

- the establishment of an organisation for the promotion of building management as a career, to be funded by one of the industry's existing statutory bodies;
- the development of a structured training programme in line with provisions of the Building Industry Technical Training Scheme;
- an increase in industrial sponsorship;
- the expansion of existing courses and the development of new ones;
- the BEC and CIOB should exert strong pressure on the Government, the University Grants Commission, the NAB and their equivalent bodies throughout Britain, and the institutions of higher education to achieve this increase in places;
- the recognition of a wider range of entry qualifications for those applying for the building courses.

Councils to fight new town clause

THE privatisation of new town housing stock could result from a clause introduced to the Housing & Planning Bill during its passage through the House of Lords.

Previous legislation had always allowed local councils to take over housing stock when new town development corporations were wound up.

But an amendment will enable the environment secretary "to dispose of housing to any person" which could mean housing associations, trusts or even private developers.

The change could affect 60,000 homes and the affected councils have pledged that they will fight to have the amendment overturned.

Planners throw out 'bulk' at Bankside

SOUTHWARK planners have rejected a high-rise scheme designed by Rendon Howard Wood Levin for Stockley's Bankside site near Southwark Bridge.

The scheme has also been attacked by the Royal Fine Art Commission which "continues to be greatly concerned about the bulk of the scheme."

Although the square footage of the RHWL design conforms to the existing planning consent on the Thames-side site, the height of the scheme on the river bank has been almost doubled from 28.5m to 55m.

"The increase in office storey height will give rise to considerable increase in volume, which

By Lee Mallett

together with the particular plan configuration, will result in a bulk which is unacceptably large", said the RFAC in its official objection to Stockley's planning application.

"The commission believes that a satisfactory scheme will only be possible if a substantial reduction of this bulk can be made."

Stockley's chief executive, Michael Broke, told *Building Design* that the company, of which Stuart Lipton is a director, will appeal against Southwark's refusal. "We've always known we would get a refusal", said Broke.

Stockley bought the site from European Ferries last year with the benefit of a planning consent for a mixed scheme including 19,500sq m of offices and 8,832sq m of housing.

Neither element of the scheme exceeds seven storeys in height. The previous owners of the site (before European Ferries) Laing Properties, had won detailed consent on this basis after a successful appeal in 1976.

Laing, in order to prevent their consent from expiring, built the foundations and ground-floor slab of their scheme.

"We would have done the simple thing and built the existing scheme," said Michael Broke, "but we considered it outdated."

Asked whether Stockley would modify their scheme to meet the criticisms of the RFAC, Broke said, "I think we'll stick with what we've got."

Stockley's new scheme inclu-

des 19,500sq m offices on 11 storeys and 10,750sq m of housing on 15 storeys, with the offices forming the higher block at 55m.

Southwark maintains that the scheme does not conform to its new north Southwark district plan, which opposes office development.



Lustre for Leicester Square

Westminster City Council unveiled a £3.5m facelift for Leicester Square as part of plans to "improve the West End environment".

A surprise addition to the scheme are plans by the London Electricity Board to build an underground electricity substation beneath the square at a cost of more than £2,000,000.

The LEB — which is contributing to the cost of refurbishing the square — says it will mark the substation with a "sculptural feature". But local shopkeepers are worried that major excavation work could disrupt trade.

Scheme one, the most expensive option and the most

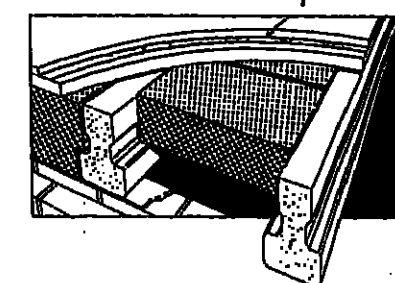
popular with the council and the consultant architects Tarsen Flora, opens up the square and replaces the existing garden area with paving and planting, interspersed with waterfalls, fountains and pools.

Less ambitious ideas are suggested in schemes two, three and four.

Westminster withdrew earlier plans for the square because they were "too lacklustre". Leicester Square's facelift is part of a larger pedestrianisation scheme in Soho which would stretch from the square, through Rupert Street, Brewer Street and Berwick Street market to Oxford Street.

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High hopes for shelter initiatives

MANY delegates hoped the initiatives planned in 1987 to launch the International Year of Shelter for the Homeless — including the International Union of Architects Congress in Brighton next July — would help focus world attention on the desperate need for better basic housing for the people of the Third World.

Sri Lanka, for example, is already planning a major development programme to construct a million new dwellings. And major housing experiments are also already under way in Korea, Hong Kong and the Philippines.

● The UIA Congress takes place on July 13-17 next year. Further details are available from the UIA Congress Secretariat, 72 Fielding Road, Bedford Park, Chiswick, London W4 1DB. Tel: 01-995 8356.

Eastern practices face little work and low fees

In the first of a series of features in the build-up to next July's International Union of Architects (UIA) Congress in Brighton, *Building Design* reports from the Asian Congress of Architects held in Kuala Lumpur last week.

ASIA'S 70,000 architects are at an important crossroads in their development.

At last week's second Asian Congress of Architects (ACA2) delegates from more than a dozen countries gathered to try to identify which direction the profession should take.

American architect Eugene Kohn, of Kohn Pedersen Fox, launched the event with a rip-roaring, all-singing, all-dancing presentation on marketing. This won loud applause from many of the 300 delegates.

Some, however, questioned the need for flashy promotional initiatives, arguing that there was plenty of urgent work to be done by architects, simply to provide basic shelter for the homeless of the continent.

Kohn's presentation on marketing was timely for the "commercial" architects of the region, many of whom are suffering from a major economic depression in the area. Dozens of office buildings in the host city of Kuala Lumpur were empty, bearing testimony to the current lack of demand for

architects' services.

In addition to a lack of work, architects throughout the region complained that clients now wanted reduced fees and demanded much more speculative work. Several had now resorted to suing their clients to get long-outstanding money.

"The situation is, at the least, desperate. In Malaysia many billions of dollars of credit have been extended to clients, some architects are seriously exposed and some clients have been very unprofessional," said Dato Kinton Loo, past president of

the Malaysian Institute of Architects.

The various member institutes represented at the congress had tackled the problem in different ways. Just six weeks ago the Malaysian Institute of Architects, after several years of lobbying, persuaded its government to establish a legal scale of minimum fees.

In return for these fees, Malaysian architects are, however, committed to providing a carefully spell-out level of service.

In Thailand architects are infiltrating the higher echelons of government to press their case and land more work. One member of the state senate is an architect, and another has just been appointed as the prime minister's senior adviser.

One ray of hope is the People's Republic of China, where Professor Chen Zhongxiang said an increasing amount of work was now being put out to private practice.

More than 200 private home-grown firms have now been established in China, and architects from Hong Kong, Singapore, Japan and Australia are all winning major design commissions.

Asian architects 'slaves of the privileged class'

A CLEAR battle is being waged in the East between "commercial" and "community" architecture.

In a recent Pakistan survey slum dwellers placed decent housing as their sixth priority. Land, water, sewerage systems, schooling and roads were all more important.

"Ninety per cent of the population of Asia have no proper shelter. They don't need architects and don't use them. Their basic needs are a much higher priority," said Syed Jaffery, director of the design bureau at the Karachi Development Authority.

"We have turned our backs

on the people, who seem to be slaves of the privileged class. Most architects in Asia are facing in the wrong direction. We must become more responsive to the people."

Commonwealth Association of Architects president J. Wells-Thorp echoed this message: "Architects have a reputation. Far too much work has been for a small elite and we are totally out of touch with the needs of people."

"The profession must, we must identify itself in word, just a token way. If we don't, its status will continue to sink. It will deserve to sink."



The world's largest robot — a 20-storey headquarters building for the Bank of Asia in Bangkok — was described graphically to the Asian Congress of Architects by its extrovert designer, Dr Sumet Jumsil. Providing 23,000sq m of prestige office accommodation, Jumsil described his building as "post hi-tech". Spoof caterpillar tracks at the base of the building suggest it can move. The giant nuts and bolts on each arm are 3.8m in diameter and two 6m diameter eyeballs in the head wink randomly. Between the 10 Jumsil located the main banking hall.

Western style loses its power

ONE of the key questions addressed by the Second Congress of Asian Architects was what future design direction should the profession be taking.

Impressive presentations made by all the member institutes, and certain broad themes emerged from these.

Most member countries have been colonised by Western countries at some stage in history, and this had always a distinctive architectural mark.

From an established, national design style to colonisation, almost a century had been stamped on the Western architectural style of its new governors.

After independence, architects had generally copied the United States or Britain, and this had led to an architectural wave, the New Movement and high-rise transplants, thoughtless into a totally inappropriate setting.

A fourth style is now emerging: modern vernacular. Throughout Asia many fine modern buildings have been designed by local architects using traditional building forms as inspiration.

Geoffrey Bawa's superb work in Sri Lanka, Charles Correa's work in India, and Alvaro Siza's work in Portugal are all witnesses to this.

Infill

Sites and sounds

Jonathan Glancey



Atlantic trends in Docklands

WHAT is Big Bang? I really do hope there are none of you hiding at the back asking that question, because the deregulation of the City which opens up to all-comers (and over-achievers) on Monday will have an explosive effect on the face of commercial architecture as we know it.

When the banks and City slickers move out to Canary Wharf next year a lot of potential clients will be looking for architects. True, Stirling and Wilford have been offered a prestigious job at Canary Wharf already, but I can't help wondering how many other British architects will follow them there.

This sentiment has got nothing to do with the quality of contemporary British architecture, but my feeling is that more than one or two banks and finance houses will be looking with bright eyes at the work of the big-time American practices who are set to pick up the big commissions.

Stuart Lipton and Arup Associates have come pretty close with Broadgate to the American way of working, but the spectre of American practices chirping cheekily at Canary Wharf in the same cage as Japanese and South-east Asian builders must be beginning to haunt some of you. Anyone who sat through the Kohn Pedersen Fox sales presentation (aka lecture), complete with Dallas clone wives in the front row at the RIBA last year, will understand what I'm driving at.

And by the way, three American practices, including John Burgee with Philip Johnson, are likely to pick up the major slice of new commercial development at London Bridge City.

Exhibition spectacular

MIND you, Britain's three big name architects — Foster, Rogers and Stirling — are enjoying the world's most extended sales presentation at the Royal Academy. Norman (or James, as *The Times* knows him) has put together the slickest of these presentations. In darkness one watches the rise and rise of the Hongkong and Shanghai Bank (designed by Stirling according to *The Times* in hushed awe; the match of Foster and Hong Kong is like "Blade Runner" run through with a mop and disinfectant. But I half expected some suave, sincere, steel-haired American businessman to pop up by the glorious model of the bank, announce his name as something like Hiram Andfire III and break into a homily about how Soufial Corporation Inc chose only the world's very finest architects to realise its corporate goal.

Otherwise I noted that the prayer tables and candles that were to have been placed in front of the model of the bank were considered too sectarian and were hastily removed before the opening. Blessing the Holy Trinity of British Architecture, visitors grope in the darkness from Foster to Stirling. Stirling hasn't built in Hong Kong but I detected a kind of Ying-Yang, darkness and light, theme in the Stirling section. The sections certainly kept visitors in the dark, but the backlit photographs of Stuttgart were a bit of a wow.

Out of the darkness (do Stirling and Foster know about an as yet unannounced extension to the Clere Pavilion at London Zoo?) into the silvery light of the Richard Rogers show. Rogers had chosen to paint the town silver. His wonderful Boys' Own bridge made a startling attempt to blend into the city: apparently if it was ever built London would be deluged by several million gallons of silver paint. But what a stunning piece of exhibition design. Everyone seemed to enjoy the recreation of the Thames inside the RA and many washed their bags and catalogues in it (or did they think it was made of glass?). If you are an architect, however, you are allowed to exercise the pet goldfish in it.

A wonderful sales pitch for Britain's leading architect and a captivating show, but I wonder why so much emphasis was put on contextualism, urbanism, fitting into the city and so on? Surely clients of these three architects want to flaunt their talents? Lloyd's and Hong Kong are about as discreet as the Eiffel Tower. Every city can cope with a few glorious architectural outbursts and I don't think that Rogers, Foster and Stirling should worry unduly. You don't exactly get one of the buildings shown in this exhibition overnight.

South Bank Corbusier

WHILE the Academy show is pulling in the crowds in Piccadilly, down on the South Bank, the Arts Council Corbusier exhibition is being hatched. The show opens next March as part of the Corb centenary celebrations and reappraisals. One wonders how the public will respond to an exhibition of a man who, if they have heard of him at all, associate him simply with High Rise Horror and so on.

What would be interesting to know is exactly how many buildings in Britain have been directly inspired by Corb's work. Obviously there are recurring motifs in the works of Stirling, for example, but how many buildings are there like the Roehampton housing on the fringe of Richmond Park which actually mimic Corb examples such as United Habitation? Can BD readers provide a list? I would like to see photographs of any examples. These would make an interesting annex to the big Arts Council show.

Splitting the difference

THE gap between what people say and what they do can be bridged by any number of unsavoury factors, ranging from ignorance to misunderstanding to hypocrisy. (The same gap can exist between what people know, or ought to know, and what they write. No sooner had I mildly criticised the London Standard for its attitude to architecture, than its art critic, Brian Sewell, put his foot firmly into his mouth in his review of the Royal Academy exhibition. He claimed that the Foster bank tower in Hong Kong overshadowed the other buildings in the area and was out of scale with its surroundings. Either Sewell has never been to Hong Kong or his hatred of modern architecture has distorted his ability to comment objectively.)

Meanwhile a wonderful gap has opened up between Nicholas Ridley, indomitable environment secretary, and his department. Ridley makes a speech to

a CBI conference praising the virtues of free market development. He warns that the country is in danger of becoming a cut-price museum because of the malign influence of conservationists, and repeat his urgings for more independence to be given to developers and architects. No sooner does he do this than (a) it is announced by his department that a new scheme is to be introduced to make the Church of England think more than once (or not at all) about demolishing listed buildings; and (b) his department reveals plans to bring in planning controls on more buildings in the countryside.

There is no good reason why Mr Ridley should not embody two entirely different attitudes to conservation and design within his one person. After all, the Tory party itself has always been divided by what one might call the "realistic" element, which believes that conservation is a con-trick whose worst character-

istic is stopping them from making a quick pile, and the Duncan Sandys/Civic Trust mob which not only believes in conservation as a good in itself, but has strong reservations about the acceptability of the developing classes.

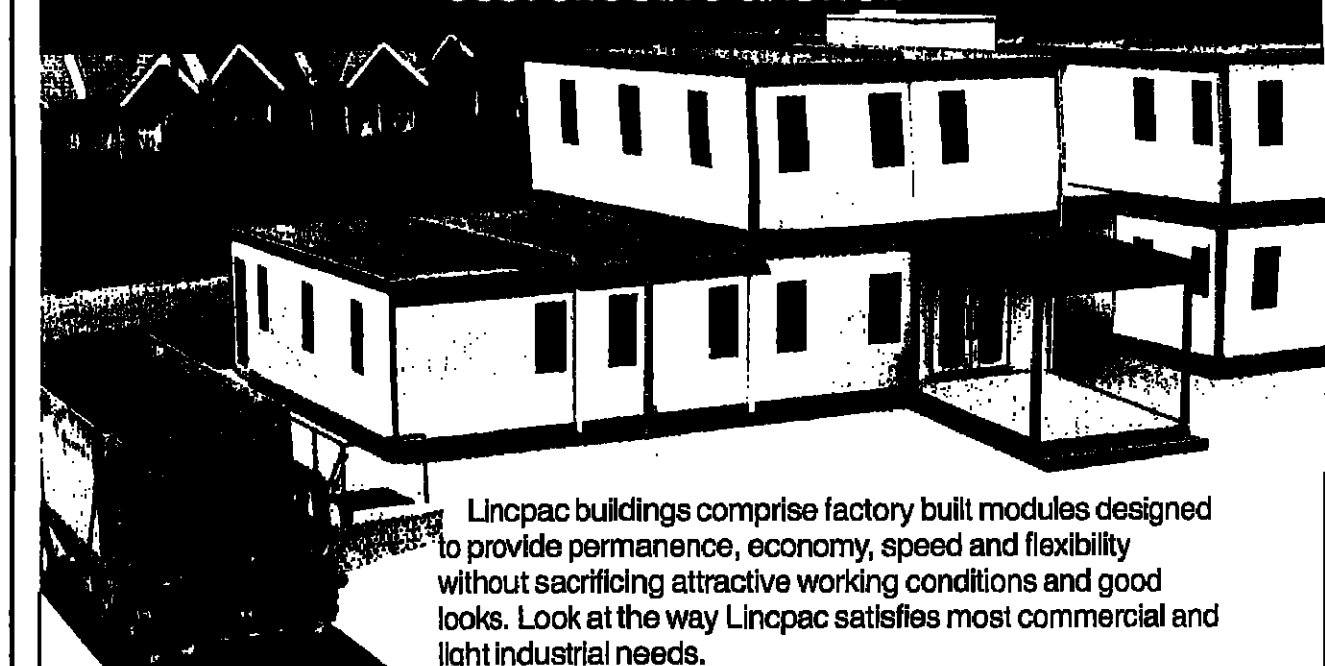
One satisfactory resolution of the apparent contradiction would be for Marsham Street to take a very grim view of meddling in aesthetic matters by planning authorities where new buildings are involved, but to continue to watch over vigorously the interests of our historic heritage. Naturally when these two policies conflict there will be trouble, but that is in the nature of a democratic planning system.

The Editor's Comment



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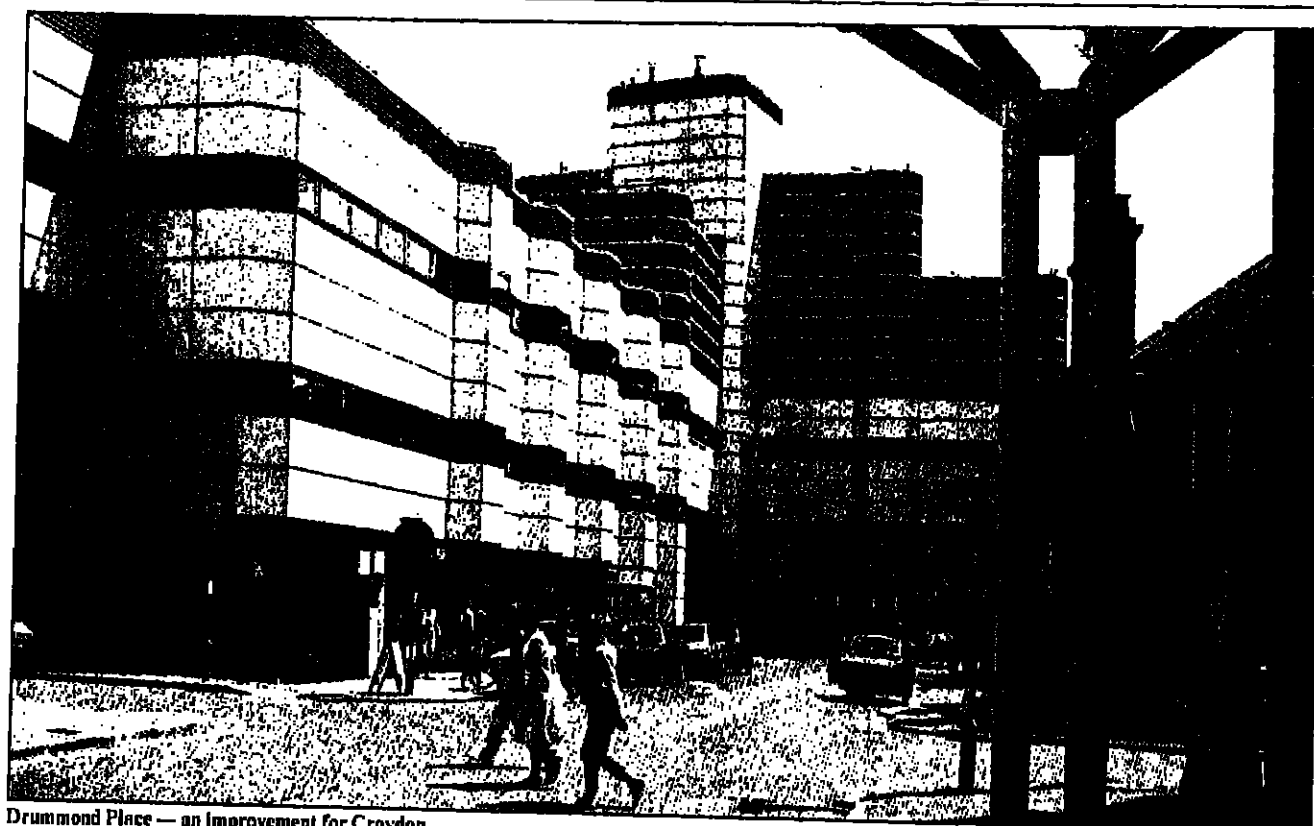
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Drummond Place — an improvement for Croydon.

Croydon addition

CROYDON, it has to be said, isn't among this country's most attractive urban centres.

As a commercial, retail and parking zone it is an unparalleled success, but the marked contrast between daytime and night-time population results in a very specialised inner area that comes alive through the day, peaks between the hours of one and two o'clock, and is dead on Sunday.

Until recently the Whitgift Centre, an early, if rather uninspiring two-level pedestrian shopping development, had everything its own way, but the retail boom has spawned newer projects.

The latest of these, Drummond Place, designed for St Martins Property Corporation by John Clark Associates, has cost £25 million and includes premises for Debenhams, Heals, and Marks & Spencer, as well as space for many other smaller units, which are mostly at ground level.

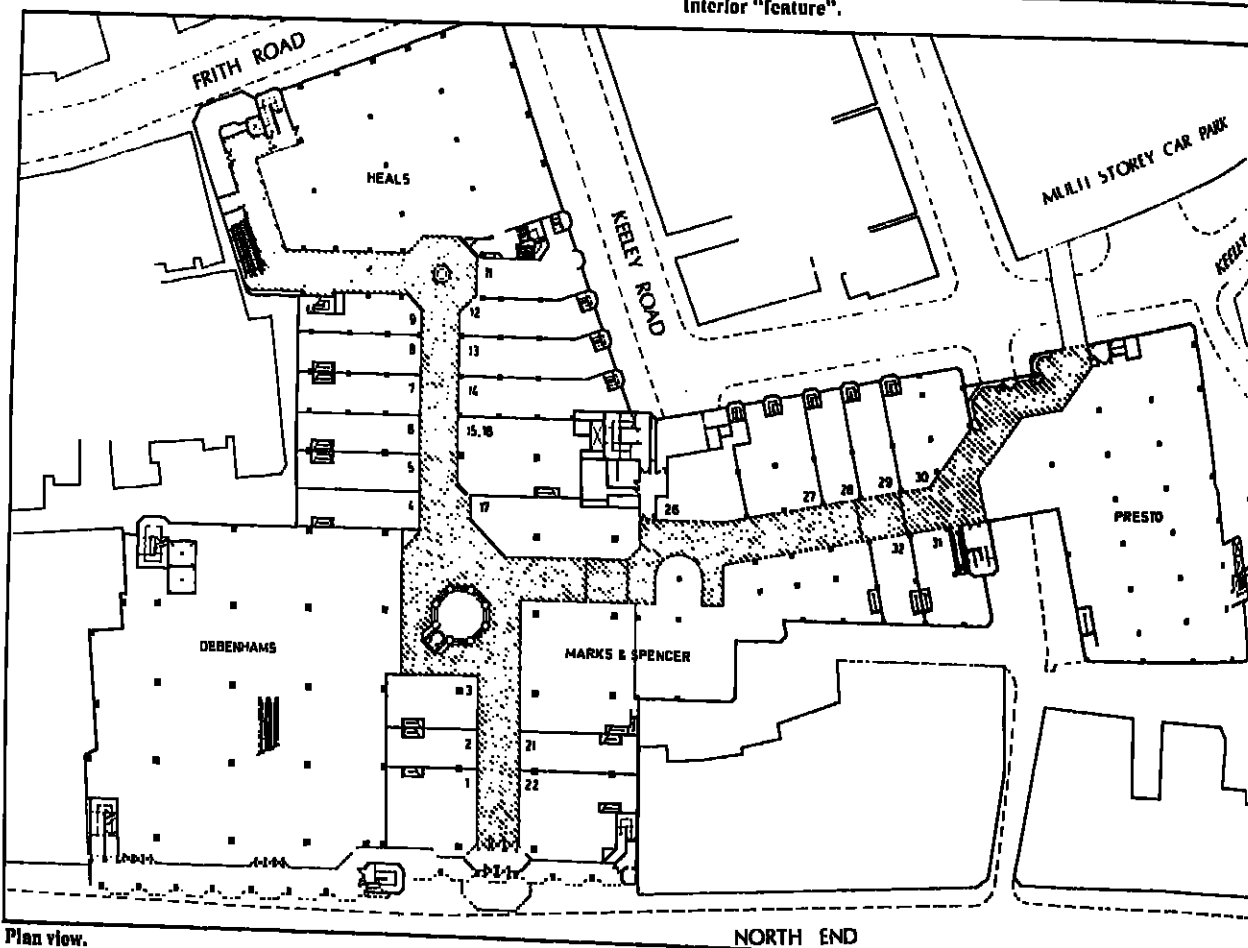
Three interior streets run through the scheme, converging on a gallery atrium faced in

marble with the obligatory "water feature", "scenic glass lift" and the novelty — an hourly laser display (John Clark used to be a film art director with credits for "Jesus Christ Superstar", "Performance" and "Tommy").

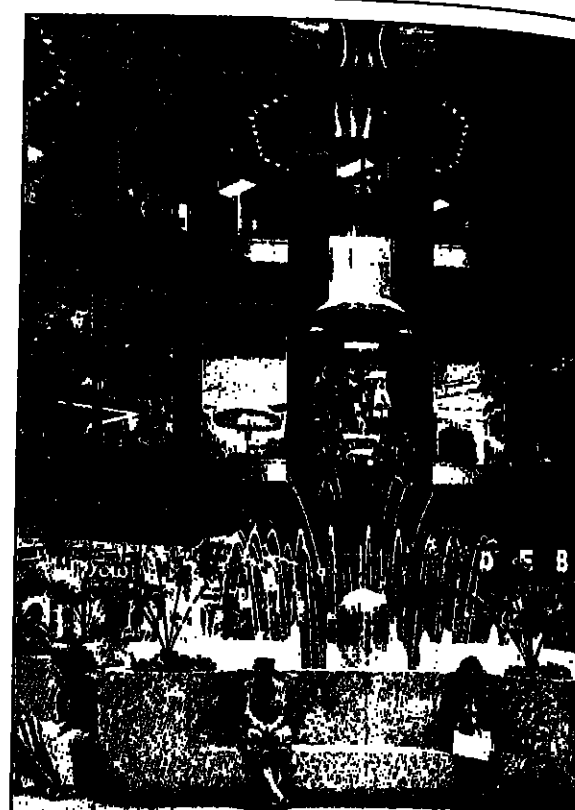
If the interior public spaces of Drummond Place are less generously proportioned than we might expect, the exterior form has an unusual freshness thanks to the well-detailed polyester powder coated aluminium cladding panels and louvers. The context of the project is forbidding, if not menacing, and while we may regret the loss of some of the buildings that formerly occupied the site, this scheme is certainly a good example of this late 20th century building type, and an improvement on most other recent projects in Croydon.

Ian Latham

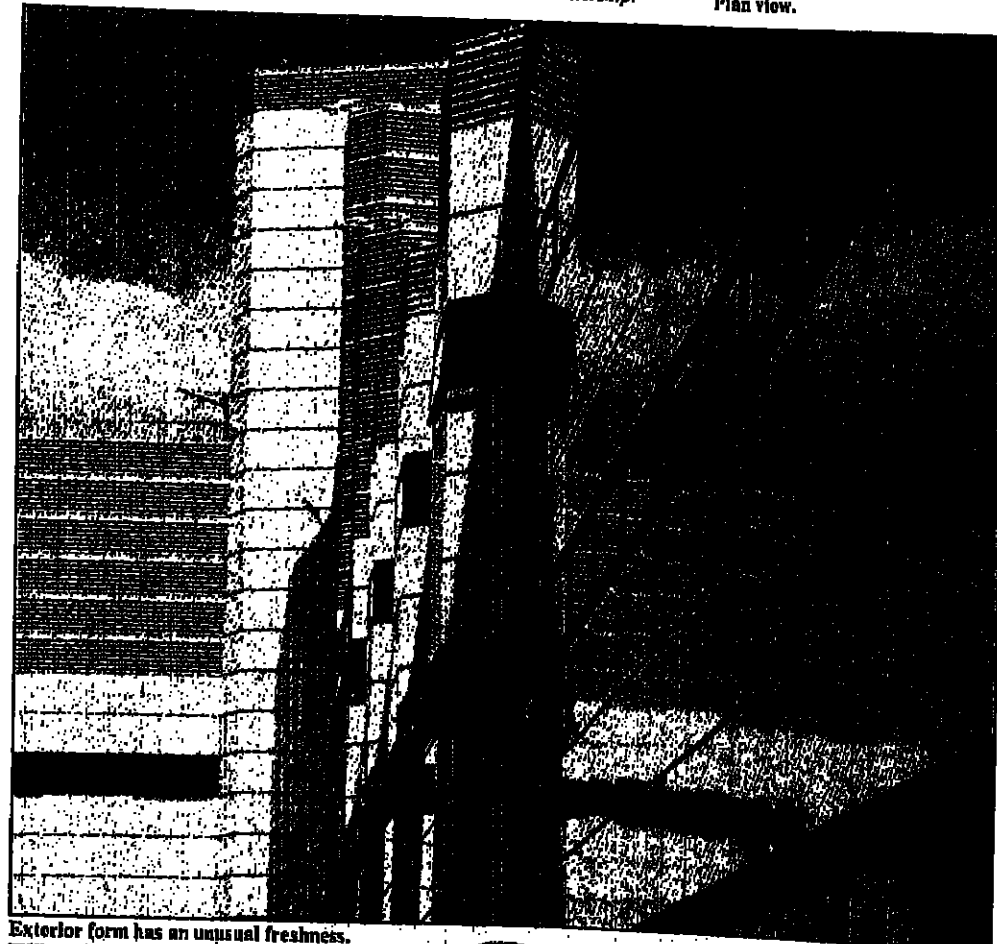
Architects: John Clark Associates. Mechanical and electrical engineers: Ronald Ward & Associates. Structural engineers: W S Atkins & Partners. Management contractors: Sir Robert McAlpine Project Management Ltd. Quantity surveyors: Wakenham Trower Partnership.



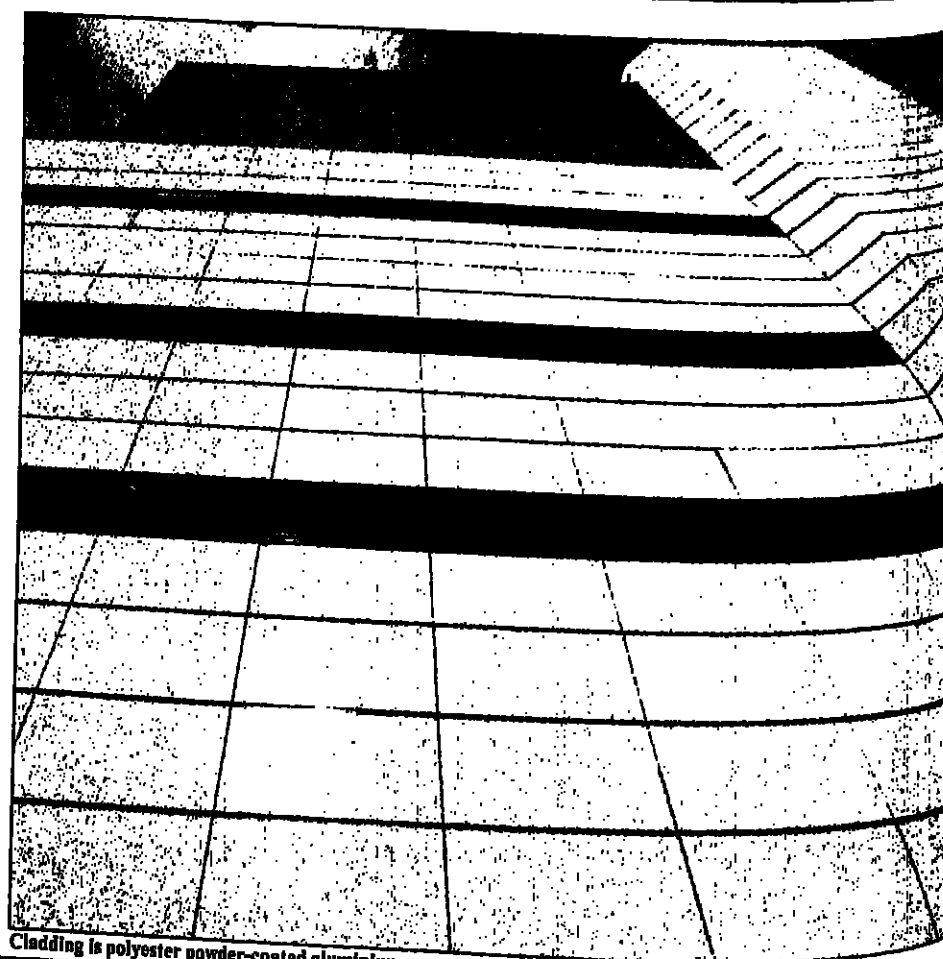
Plan view.



Interior "feature".



Exterior form has an unusual freshness.



Cladding is polyester powder-coated aluminium.

Scorpio



The institute's man plays a hard game

ANYONE who thought Raymond Andrews would be a pushover in the RIBA presidential election stakes has got another think coming. For backed by the power of the establishment, mean-machine politics is taking over.

Take, for example, the recent communication received by overseas members of the institute in the form of a personal letter from Andrews.

This goes on about how anxious he is to see members at the UIA Congress in Brighton next year — as president. The letter then becomes an unashamed plug for the Andrews candidacy.

One irate overseas member, now retired to the Isle of Man, comments: "I feel that this form of election propaganda seeking overseas votes under the guise of sending information regarding the UIA Congress is somewhat unethical."

In fact, candidates are entitled to a list of overseas members — a fact which for some doubtless good reason nobody bothered to tell Rod Hackney about until he belatedly asked. He was then told that getting computer time would delay his list. After further inquiries by Scorpio, I am happy to say an amazing speed-up has occurred and they are on their way.

Bringing in the punters

THE Royal Academy was "really, really pleased" with the first week's "New Architecture" attendance figures. There were fears that Jim, Norm and Roger would only attract a paltry 800 visitors a day, but the Great British Public, it seems, is being won over by our Great British Architects.

Week one had an average of 1,176 visitors a day with a bumper 2,238 turnout on Sunday, when it's cheaper. However, architecture still does not have the crowd-pulling abilities of say, the recent exhibition of German 20th century painting, with 2,288 daily visitors.

But RA staff say a more realistic comparison is with the "New Spirit in Painting" show back in 1981, which left the RA considerably out of pocket.

Surprise winner

STAFFERS at Richard Rogers Partnership, First Architecture and the BBC were all contestants at Britain's first Office Olympics, a novel way of promoting Project's office furniture at this year's Designers Saturday.

Shahab Kasmai from Richard Rogers has a dim recollection of Saturday's sober event, so was surprised to learn some days later that he was indeed the winner of the putting contest, and a clock radio. Apparently the proclaimed winner on the day was discovered to be an employee of Project Furniture and was promptly disqualified.

HRH boycott averted

I SEE all is well with the "Building Communities" conference, although it all could have been so different.

Representatives from minority groups and the voluntary sector — the Federation of Black Housing and Black A.C.T.A.C. to name but two — were threatening to boycott the conference because they were so heavily outnumbered by the private sector and the professions.

The organisers finally cracked and gave in to their demands for more speakers, after Prince Charles threatened to withdraw his services too, according to community sources.

Scene and heard

GOOCH Ware Travelstead waits with baited breath for the final seal of approval on the Docklands Light Railway, which should spark off (at last) major work on his Canary Wharf scheme.

But who will head the development company? The search is still on, following polite declines of the job from Brian Cann, mastermind of the London Bridge City scheme, and David Davies, the property world's favourite entrepreneur and gossip-column feature.

Why this reluctance to take on the job? Obviously the £350,000 pa salary is insufficient!

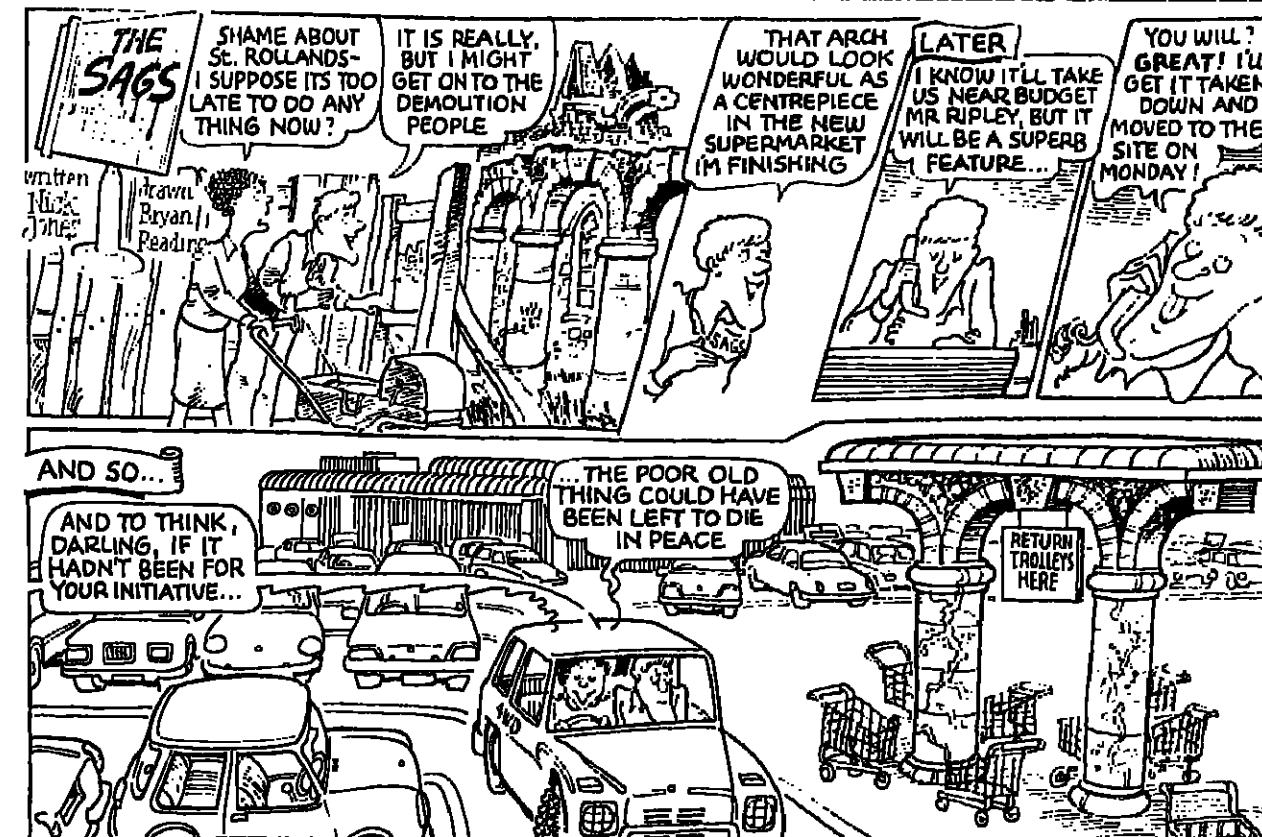
THE critical part of the Canary Wharf jigsaw is still in place. The Bill to extend the railway to the City is making snail-like progress through Parliament and seems to be stuck somewhere between the House of Lords and the Unopposed Bill Committee. Optimists now say the Bill could get Royal Assent by mid-December.

CONNOISSEURS of Portland Place in-fighting are scanning court news with more than usual interest. None other than Rod Hackney is suing the institute over non-payment of telephone expenses in connection with community architecture.

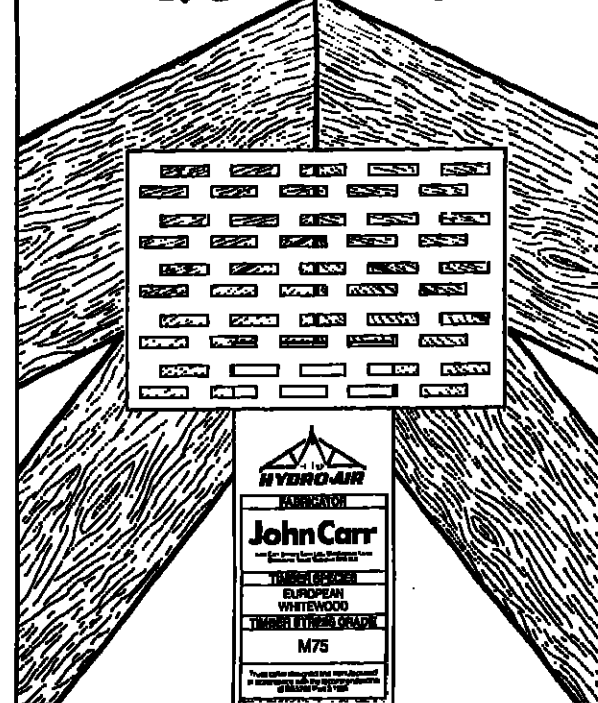
10 years ago

A LEEDS councillor has given full backing to the report clearing the 1,250-flat Hunslet Grange estate of structural faults. He refused to meet Sam Webb and other experts who said the flats were in danger of collapsing. Building Design, October 22, 1986.

Statistics



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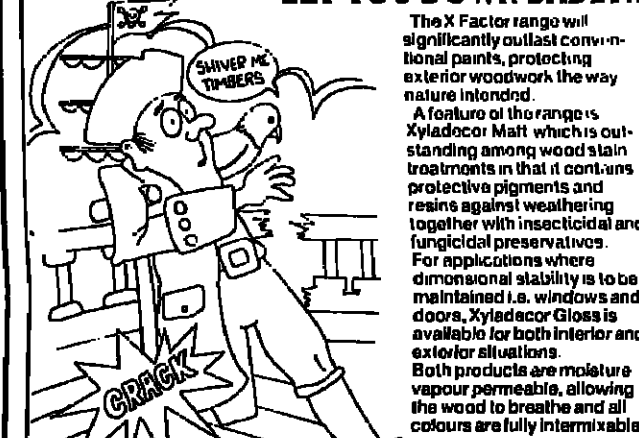
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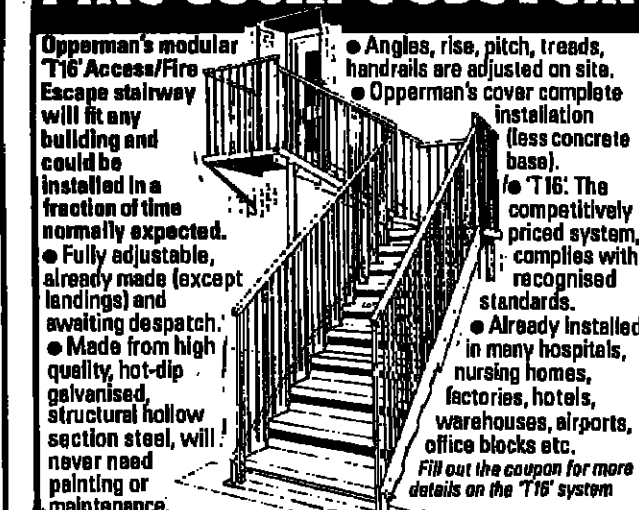
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Letters

Calculating the insurance risks

From John Newlove
IT was inevitable, I suppose, that somebody would completely misunderstand my letter on the subject of indemnity insurance.

Paul Newman (October 17) saw it as an attack on architectural technicians, which it certainly was not.

My point is that architects Letters for publication should be typed on one side of the sheet and sent to The Editor, Building Design, 30 Calderwood Street, London SE18 6QL.

seeking indemnity insurance should be able to make rational choices in the risks which they feel inclined to take and that, somehow, premiums should be adjusted in relation to those risks.

There are certain risks inherent in the practice of architecture and there are other risks which architects may feel obliged to take, but they need to be obliged to take if the relative costs of insurance are to be reduced.

Many claims arise from weaknesses in contract administration. An architect's duties in respect of contracts on-site may be summarised as follows:

- issue information to the contractor;
 - give instructions;
 - monitor progress, quality, and compliance with contract conditions;
 - value the work properly executed;
 - issue certificates;
 - continually reconsider the design as work proceeds;
 - consider and decide upon applications for additional time and costs;
 - issue notices.
- These duties are onerous and hazardous. In view of the rising costs of insurance it would be prudent to reconsider how some of these duties are delegated. Professional responsibilities

lie heavily on architects, because the law adopts a stern attitude towards professionals who fail their clients and I am sure that it would not excuse errors arising from the mis-employment or inadequate supervision of technical assistants. My suggestions should be taken in this context, as an attempt to rationalise the control of insurable risks.

It does not surprise me that technicians practising separately are able to obtain indemnity insurance more cheaply than architects can obtain professional indemnity insurance. This is less likely to be a measure of architectural competence, as Newman seems to imply, than a reflection of the fact that technicians are considered to be less get-at-able for the time being. John Newlove Leeds

The winners at Divis

From Brian Anson
ALLOW me to use your columns to thank Cedric Price for his bits on Divis (October 17). Thanks Cedric but, you know, it wasn't my campaign — and that's not false modesty as it's clear our exhibition had a powerful effect on the struggle.

The truth is that everyone's jumping on the bandwagon claiming credit for the demolition victory: every political party in the north of Ireland (with the noticeable exception of Sinn Féin); the Catholic Church and others — all screaming that they did it! Not for those who really won the day — the Divis residents who've struggled for 14 years.

I hear today, from a reputable source, that even Alice Coleman is claiming that the Divis victory is hers!

Anyway, we'll be grateful if you'd put your considerable power behind the next phase of the struggle (it's going to be harder than the demolition campaign) — the right of the Divis people to fully control the design of what replaces Divis. The housing executive says it's determined to use "in-house" architects — the Divis people say "no you're not". Here we go again. Will it ever end? Brian Anson Surbiton Surrey

The bookies' friend

From Ray Cecil
SCORPIO the bookies' friend! By advising people (last week) to back two odd-on chances in a two-horse race he is doing nobody else a favour. Or is he planning to take the bets himself? Ray Cecil London W1

Selling the Drawings

From The Rt Hon Earl of Perth
PC
YOUR front page (October 17) reports that the future location

of the RIBA's Drawings Collection, Portman Square or Portland Place, is to be an important issue in the institute's presidential election.

The trustees of the RIBA Architectural Library have from the start been informed of the plan to be architectural books, drawings and archival material to be housed at Portland Place; the purpose is to create a National Architectural Library acknowledged as such by the Government and supported by the British Library and the Victoria & Albert Museum. It would have a separate identity and building, including the Library Picture Gallery, but would be amenities such as the restaurant and bookshop with the main building.

Finance is the challenge, the overall building cost, including the additional needs of the extra staff and architectural material past current from all countries, is estimated at £10 million rather than the £3 million quoted in your report. In addition, an endowment of £1 million or £3 million would be raised over the years to fund the extra staff and architectural material past current from all countries, is estimated at £10 million rather than the £3 million quoted in your report.

At no time have the trustees heard of a proposal to sell drawings to finance the project. I am confident they would oppose it as totally wrong. I feel sure would the RIBA trustees? Perth London W1

Irresponsible suggestion

From John Wells-Thorp, RIBA
Honorary Librarian
IT is a pity that John Hamlin deliberately confused the RIBA presidential election campaign by his silly and irresponsible suggestion that I have ever contemplated selling part of the RIBA's Drawings Collection to pay for the reinstatement of the collection at Portland Place (October 17). Hamlin's assertion is unfounded, and nothing I have further from my mind. I feel it necessary to correct this immediately because suggestions of this sort can give the chances of a presidential election. John Wells-Thorp London W1

Stop rainforest destruction

From Joyce Taylor, Kensington & Chelsea Friends of the Earth
REGARDING your correspondence on McDonald's Cambridge development and the hamburger connection with tropical rainforest destruction (September), I would like to second Stephen Meredith's anti-hamburger line.

But he highlights only one of the complex causes of rainforest loss... consuming hamburgers is not restricted to architects and designers, as is the specification and use of tropical hardwoods for the building industry and for decorative purposes. As well as not eating hamburgers derived from Central American rainforest ranches we should be concerned to avoid rainforest destruction in our own special sphere of interest and influence.

Logging, for instance, is the cause of massive tropical rainforest loss in some parts of the tropical world. Of the 78,000m² of tropical log imports to the UK in 1983, 32 per cent was used by the construction industry and 58 per cent by the furniture trade. Of the 619,000m³ of tropical sawnwood imports to the UK in 1983, 49 per cent was used by the construction industry and 35 per cent by the furniture trade (see Francois Nectoux — Timber) — an investigation of the UK tropical timber industry, published by Friends of the Earth).

The timber trade reacts sensitively to suggestions from environmental groups that logging is connected to tropical forest destruction, maintaining that only about 6 per cent of annual forest cut is exported. There is no doubt that in some tropical countries the main cause of forest destruction is the search for fuelwood and farm land, but there is no doubt either that the selective extraction of specific mature trees from a closed primary forest is the first act which opens up virgin forest to slash-and-burn cultivators and fuelwood gatherers.

And that is not the end of the matter. These tropical rainforests are home to many thousands of indigenous tribal peoples, are habitat to nearly half the world's wild species, and containing as they do an incredible variety of species, they are the world's genetic bank for the future of science, medicine and industry. When the trees go, the thin forest soil washes away, causing siltation and flooding, and the land degenerates to scrub and desert; rainfall declines and rational and global weather patterns change.

Friends of the Earth are aiming to promote the sustainable use of the tropical rainforests in the form of plantations on already degraded land, and carefully managed forest concessions, and where necessary their outright protection.

They also wish to spread the message that those of us who live in developed countries are as responsible as people living in developing countries for the loss of the rainforests. It is up to us, as architects and designers (as well as hungry eaters) to do our bit to stop the rot.

Joyce Taylor London W11

Binding agreement

From J Wood
I WAS interested to read in your paper that the American exper-

ience is that firms are rejecting projects unless the client will indemnify the architect regarding insurance.

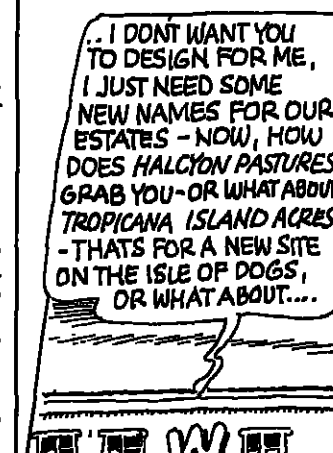
This is an attitude which I have frequently expressed to architects, and if a proper agreement is reached at the outset, I see no reason why such an agreement should not be legally binding. If there is a reduction in the architect's fee to take into account the shifting of the burden of insurance then there is no reason why the arrangement should not be perfectly valid.

Unfortunately, lawyers in this country are unable to escape liability for negligence, as this would offend the Unfair Terms of Contract Act.

The high cost of insurance has now driven solicitors to fund their own insurance requirements. J Wood Staines

Hollow truth

From H Werner Rosenthal
THE SAs (September 26) were not too far off with Sir Wallace's "Halcyon Pastures". Here in Amersham we have a recent development on a dead-flat site, a former garden, two minutes walk from the main shopping street, called "Sleepy Hollow". Nick Jones could hardly improve on this! H Werner Rosenthal Amersham Bucks



Obscure molehills

From David Higdon
ARTHUR Quarmby (October 3) chewed the obscure (that's obscure too) reference to earthshelters in my earlier letter on design control. I happen to think earthshelters could be really really great, and I mean that sincerely. I would just love to live in one, swimming around down there without offending anyone. Oh my! Oh my!

The point I had hoped to make was that even as benign a proposition as an earthshelter on the flapside of the landscape would be a contradiction in terms if the use to which it was put resulted in huge amounts of traffic pollution. So applying this logic to the Quarmby challenge: deep-mined storage for propane and butane near the Lincolnshire coast seems ok; deep-mined earthshelter nuclear storage elsewhere in Lincolnshire would be totally repugnant. Dig it? David Higdon Newcastle Upon Tyne

Letters

Hackney's overhaul

Jan Finlay, chairman, Community Architecture Group
I AM encouraged and pleased that Rod Hackney has decided to run for the RIBA presidency. The RIBA needs a major overhaul, of that there is no doubt. We have endured for far too long a moribund administration and successions of presidents interested in the profession's upper echelons only.

The RIBA instead ought to be addressing the needs and concerns of ordinary architects who constitute the vast majority of the profession, and additionally students and their needs when qualified.

We also require a president and administration that is prepared to redress the real environmental problems which exist and to support architects working with members of the wider community who must require their expertise.

In short, we need a president and administration that can demonstrate its care. The existing stagnation will require determination and vigour to tackle it. It will certainly require the energy and commitment of members in the regions to overcome this basic problem.

Rod Hackney has a reputation for taking on issues with insurmountable odds... and winning.

He is clearly the person for the job ahead. Jan Finlay London W1

Classicism analysed

From Professor Geoffrey Broadbent
Head of school, Portsmouth Polytechnic
HOW grateful your letters editor must be to H Meyer, who can always be trusted to rise to the occasion (*Letters* October 10). But Meyer has missed the point of my original letter

(September 17). I have no proprietary interest in classicism, nor was I apologising for it. I was simply reporting facts which must be taken into account before anyone draws conclusions. My central point was that you cannot equate classicism with fascism, since Russia and China demonstrate, very clearly, that regimes of the kind which Meyer seems to want, with "the equal right of all to the occupation and use of the land" have been just as prone to build classical monuments as any of the fascist regimes. What is more, they have done so on the authority of Karl Marx himself.

As for Frank Lloyd Wright, of course he was most scathing of those Americans who continued to build classical monuments in the 1930s, but he embraced classicism himself at the two ends of his career. The first thing you see in his own house and studio in Oak Park is a classical frieze. If fine buildings, such as those rather awful offices for Marin County belong

to any tradition at all, it is the classical tradition. What is more, Wright recorded his approval of the Soviet government's attempt to bring classicism "to the people" with the Moscow Metro System etc.

Before we jump to any conclusions, there is one further, rather stunning fact: that Skidmore, Owings & Merrill have appointed Leon Krier to advise as to the architecture they ought to be doing next (A2, October). No doubt Meyer and others will react with equal violence to this, but surely we should all be asking why the most modernist of all modern firms should be taking such a drastic step. One's aim, surely, should be trying to understand rather than to react with violence. Geoffrey Broadbent Portsmouth

Letters for publication should be typed on one side of the sheet and sent to The Editor, Building Design, 30 Calderwood Street, London SE18 6QL.

A developer's advertising brochure has sparked controversy in Glasgow. Richard Carr reports.

MUCH interest has been aroused in Glasgow architectural circles by the claim that a "new" house designed by Charles Rennie Mackintosh has been discovered at Milngavie on the northern outskirts of the city.

The house, Robinsfield, was bought a couple of years ago by a property developer who has been renovating and converting it into self-contained flats, and

the glossy brochure offering the first of the flats for sale states:

"At the turn of the century, an architect was commissioned to design a large country house on the edge of Bardowie Loch for the Scottish artist R Macaulay Stevenson. The architect was Charles Rennie Mackintosh and the new house was to be designed around the existing 18th century towerhouse to form a large country mansion containing two large artist's studios."

This statement will no doubt surprise Mackintosh experts like Roger Billcliffe, who has found no written evidence of the architect's involvement in Robinsfield, and Vivien Hamilton of the Mackintosh Archives held by Glasgow University, who says that there is only one reference to Robinsfield in a notebook of 1913 which refers to advising on a colour scheme for the house. But the developer's claim has received some support

from Macaulay Stevenson's daughter Jean, now in her 80s and living in Glasgow, who says: "Mackintosh and my father were very great friends and, of course, Mackintosh came out to help, Mackintosh made the stairs just about 1906-07."

She also believes that Mackintosh may have advised her father on the design of two large inglenook fireplaces in the house.

Just how divided opinion is on the extent to which Mackintosh may have been involved in Robinsfield can be seen from the views of other experts. Ronald Watt, the architect working on the conversion of the house, says:

"The overall pattern of the building is consistent with the work Mackintosh was doing elsewhere around the time (1906-7)."

"Whether Mackintosh was there throughout the building period or not, I am convinced that he controlled or influenced the whole."

Support for the Mackintosh camp also comes from Dr Tony Jones, who has just resigned from being director of Glasgow School of Art to become the head of the Art Institute of Chicago.

"Of course very much of the house is Mackintosh," he says. "The developers were naughty in describing it as a commission of his — but they could be excused in that the large studio windows are identical to those in my own studio in the school of art, and are smaller versions of those in the large studios in the art school."

"Also, the staircase is undoubtedly Mackintosh, and the fireplaces have strong Mackintosh overtones. I feel that here Mackintosh was trying out his early ideas before they came to their ultimate resolution."

But this view has been challenged on Scottish Television by its interviewer, Alistair Moffat, who said:

"There is no evidence whatever to show that Robinsfield was designed by Charles Rennie Mackintosh."

"All the experts say emphatically that the building was not designed by him."

Moffat added that the nearest anyone had gone to attributing Robinsfield in any way to Mackintosh was to say that the house was designed by Macaulay Stevenson in the Mackintosh style, "which is a long way from telling prospective buyers that Robinsfield was designed by the great man himself."



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Awards

INNOVATIVE IDEAS

THE first annual PA Awards for Innovation in Building Design and Construction were presented on Tuesday by housing minister John Patten.

Chairman of the jury, Professor Brian Smith, presented the report on behalf of his fellow assessors Roy Landau, Jack Newby, Deyan Sudjic and Roy Brown, extracts from which follow:

"PA's intention was to award three prizes — for a factory, for a public sector building and for an office — and we had on the shortlist at least one for each category. At last — and I must admit somewhat to my disappointment — the panel did not regard more than one entry as worthy of a prize.

Their reasoning was soundly based on the criteria which had been set for the competition, and, of course, their own experience and knowledge of the industry.

The central criterion was clearly the degree of innovation, and here we considered both technological innovation, such as new methods and materials, and conceptual innovation such as new applications of old ideas in new situations.

The other criteria were benefit to user (did the building work well for its occupiers?), transferability (that is, the degree to which the new idea could be adopted by others), aesthetics (more a corrective factor than a positive one, in other words, no matter how innovative, an unattractive building would be marked down), and lastly one which I never really understood called "the enhancement of British design and construction", so I gave all entries the same mark.

All eight on the shortlist displayed highly innovative features. It was simply that the winner met the criteria best of all.

Scott, Brownrigg & Turner submitted "Concept 2000", a most impressive glass-covered office in Farnborough. The innovation was strongly centred on the way of fixing the glass and on its effect on the environment inside. Unfortunately the office was new, had not yet been occupied and so we could hardly

National Farmers Union Insurance Building, Stratford upon Avon, RMJM.

satisfy ourselves that it did indeed work to the benefit of the users. I hope that this entry can be re-submitted in next year's competition.

Edward D Mills & Partners entered the Birmingham International Arena, a staggering piece of engineering and capable of seating an audience of 12,000 people. It had been completed over five years ago, which seemed a long time for an innovation award.

RMJM entered the National Farmers Union and Avon Insurance Building at Stratford. Again a remarkable piece of design and construction and the architectural press have given it wide coverage.

Chamberlin, Powell, Bon & Woods entered the Wandsworth Refuse Transfer Station, with the innovation essentially conceptual. Siting a refuse works on an sewer and promoting it as part of a recreational area for the public, was indeed a bold concept.

Fisher Hollingsworth Partnership submitted their conversion of a Victorian building in Hull to three soundproof, ventilated, well-lit juvenile law courts by using special glass reinforced plastic partitions. A quite delightful achievement, I felt, in an unpromising situa-

Concept 2000 at Farnborough, by Scott, Brownrigg & Turner.

tion. The Harry Bloomer Partnership submitted the offices of the South Staffordshire Water Company at Walsall. The central innovation was energy conservation including deep

factory making new forms of micro-chips. The demands for clean and vibration-free production areas, and the use of exotic and dangerous materials, posed a special challenge to the architects, which they answered in a splendid way.

And so we come to the entry submitted by Sheppard Robson. Triton Court, Finsbury Square, Richard Ellis acted as developers for the Royal London Mutual Assurance Soc-

Cross section through atrium of the Triton Court development, the award winner.

who own the building; Ove Arup were engineers, and Gardiner and Theobald the quantity surveyors; the builders were Trollope & Colls.

To quote their submission, Sheppard Robson "were briefed

to transform the existing Edwardian building with its obsolete services and gloomy internal lightwells into an office environment capable of attracting the City's most technologically advanced companies and

institutions."

In our view they have done this with distinction. The incorporation of an atrium is by no means the whole of the innovation, although it is a splendid one; central design

Awards



Triton Court, Finsbury Square, by Sheppard Robson.

showed itself in other ways too:

● The new atrium entrance will preserve the best of the old Edwardian facade in a surprisingly sympathetic way.

● Great attention has been given to office community

facilities such as a gymnasium, squash courts and a restaurant, and even aspects of Finsbury Square itself were influenced by the architects.

● The construction methods used were unusual and in some ways unprecedented, with a high degree of pre-fabrication without involving traditional wet trades.

● There is a computerised building services system, and, believe it or not, coal-fired boilers.

The initial cost was close to £30 million, and the building houses some 2,000 staff. Sheppard Robson on Innovation at Triton Court:

● In stark contrast to the prevailing "rent slab" approach to City offices a concept of an office community was developed with the possibility of many tenancies sharing a common entrance and a communal focus in the atrium. The wine bar, restaurant, squash courts, gymnasium and kiosks serve the occupants but are equally accessible to the public.

● By careful, often laborious negotiation with the Greater London Council which resulted in the acquisition of nearly 100 waivers to traditional building regulations, the Triton Court atrium is not a "sterile tube". It is the circulation hub of the

building, it contains café terraces and lush planting and all the occupants around it can share its atmosphere by opening windows or balcony doors.

● In its construction methods Triton Court was unprecedented. Techniques developed for new-build "fast track" schemes were used for the first time on an existing building refurbishment resulting in an extremely rapid contract. These were: slip-formed concrete

cures, prefabricated steel frame, prefabricated toilet "pods", prefabricated steel staircases and atrium cladding, all of which were assembled quickly without traditional wet trades.

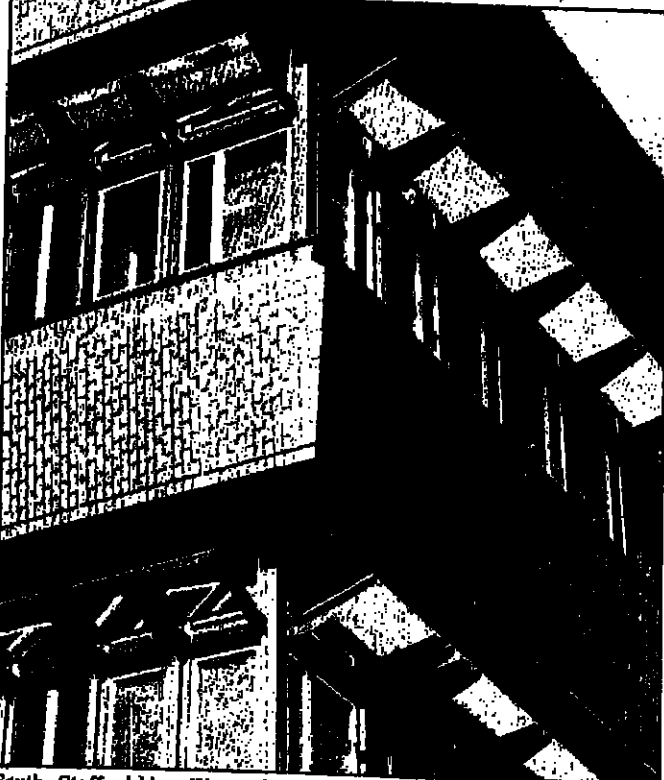
● The sophisticated services installation features innovative coal-fired boilers and a totally computerised Building Automation System.

● Within the atrium the colonnaded base, stone upper floors and mansard roof of the classical exterior have been echoed by a layered treatment using modern materials detailed to generate the same robust confidence of the Edwardian facades. Mirror glazed curtain walling, so often used unimaginatively as a total building envelope, has here been used as a foil to more solid cladding materials, creating a brighter atrium with a lower apparent height.

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Birmingham International Arena by Edward D Mills & Partners.



South Staffordshire Water Company, Walsall, by The Harry Bloomer Partnership, detail of the fenestration.

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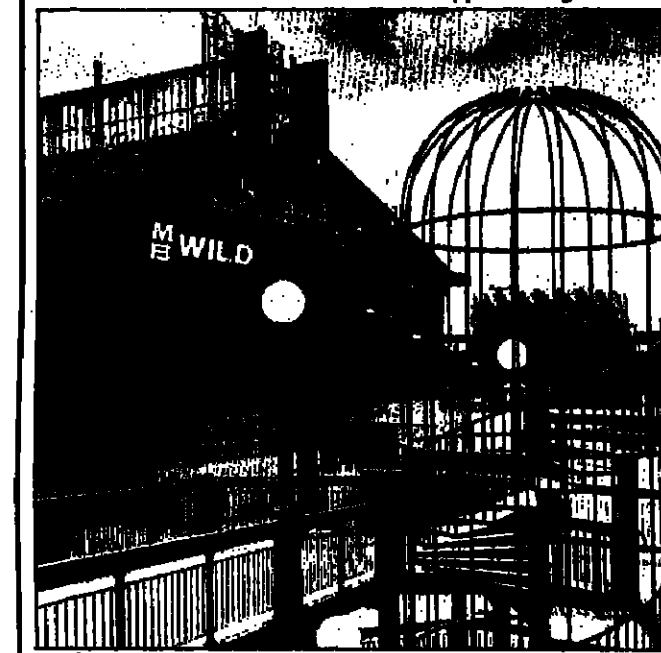
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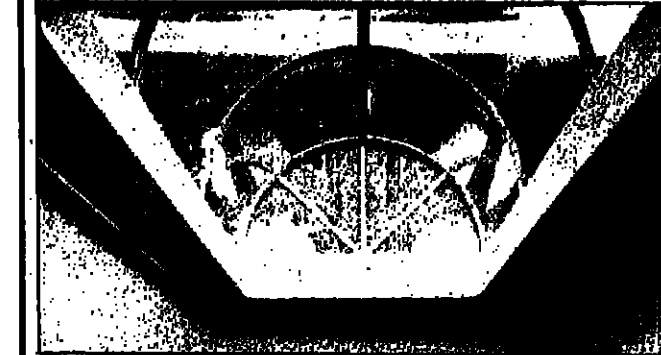
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Wandsworth Refuse Transfer Station by Chamberlin, Powell, Bon & Woods.



Detail from the Lowgate Courthouse, Hull, by the Fisher Hollingsworth Partnership.

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UNIVERSITY CHALLENGE

Ian Latham prefaces the three prizewinning proposals for the new University Centre at Aston. They are presented with extracts from the architects' reports.

BY all accounts the open competition for the design of a new conference centre and residential block, recently won by Milton Keynes practice Denton Tunley Scott, has been a success.

The brief was well set out, the problem was challenging, the jury was of high calibre and the two-stage procedures, whereby eight practices were paid to develop their initial sketch schemes, seems to be the most painless and surest path to finding a satisfactory scheme.

The three prizewinning entries are of high quality and warrant closer examination because they are by comparatively young emergent practices and their selection was by a jury including John Partridge and Paul Koralek of HKPA and ABK respectively, worthy and

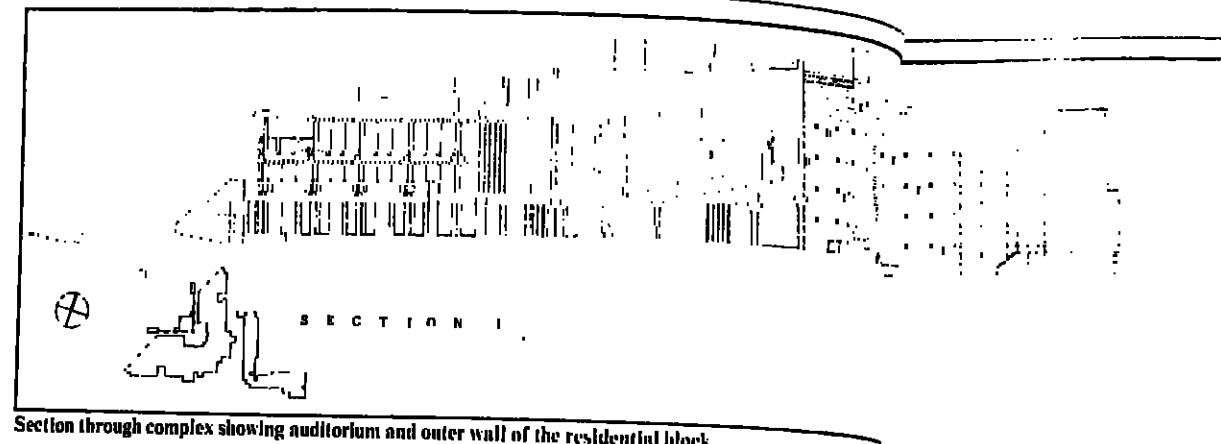
successful practices with a good pedigree.

The complex inter-relationships of the various functions as well as the problems posed by the context demanded thorough and inventive schemes, while the phasing requirements made only a few diagrammatic plan arrangements possible. (Note, for instance, the similarities between the first and third placed schemes.)

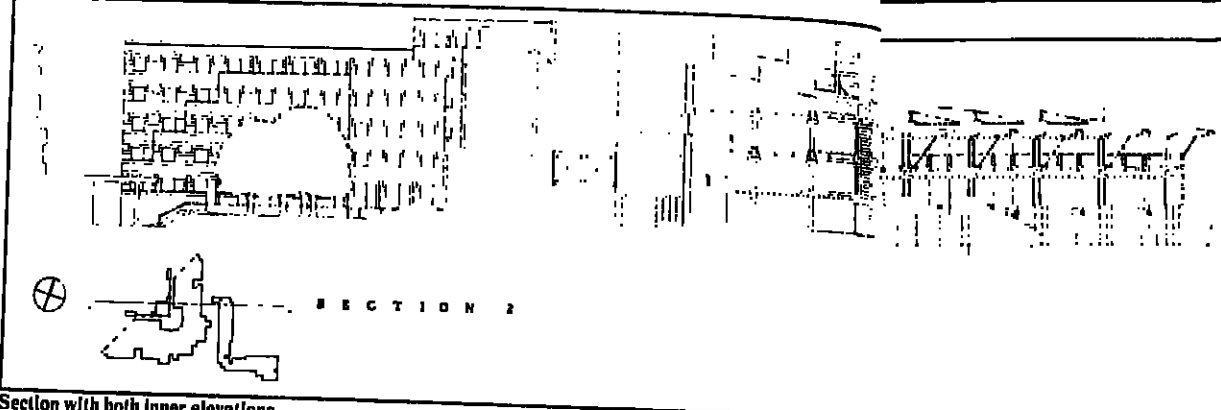
Denton Tunley Scott's winning project owes something to the Cambridge school that includes Leslie Martin, Richard MacCormac and Barry Gasson, as well as the Dutch structuralists like Van Eyck and Hertzberger. The richness and apparent complexities of the scheme are achieved through highlighting the functions of the concrete frame and other constituent materials — a kind of

constructional expressionism.

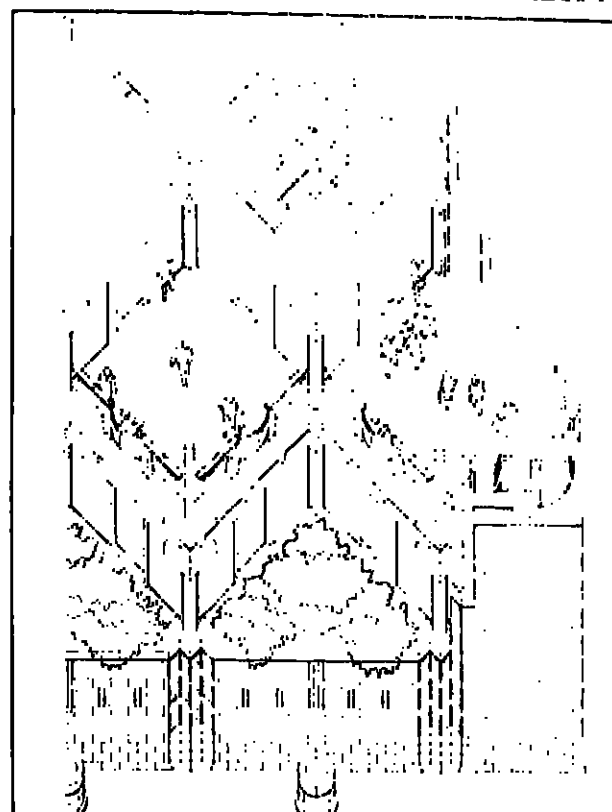
Second-placed Bob Allies and Graham Morrison have produced a more restrained yet equally exciting solution that fits the classic-modernist tradition — they have even "quoted" directly from Alvar Aalto with their auditorium. Munkenbeck & Marshall in third place, have also produced a thoughtful, contextual scheme, perhaps more evidently stylish than the other two, and perhaps with similarities to an approach we might expect from Jim Stirling.



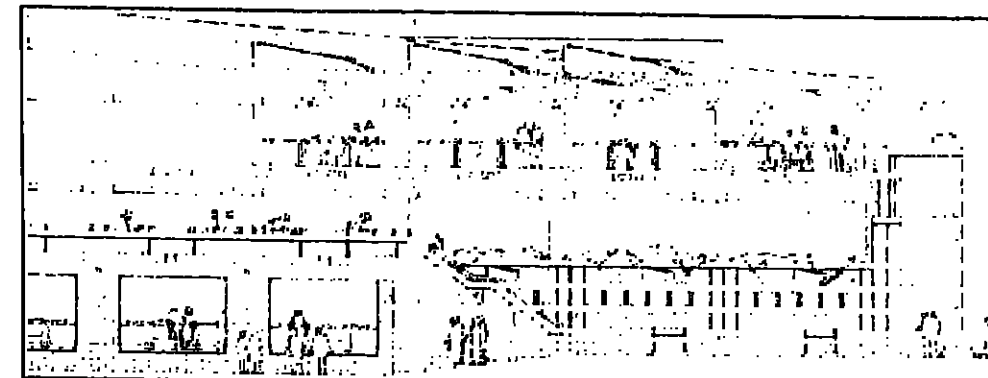
Section through complex showing auditorium and outer wall of the residential block.



Section with both inner elevations.



Axometric detail with part of roof canopy removed.



Elevation detail of conference building.

Denton, Tunley, Scott (First)

THE pivotal location of the site offers the opportunity to insert a unifying element which could bring together the present collection of existing buildings of disparate forms and styles. The proposal seeks both to form and imply a series of external spaces and routes in an attempt to bring order and calm and some degree of civility to a difficult situation.

The priority in this structuring exercise has been given to the formation of a University Square

are which in the urban context is seen as an ante room between the gateway entrance hall on the SW corner and the larger Costa Green Square. A secondary but perhaps equally important aim was the provision of a linking route from Costa Green and the north to the library, which seems to have been cast adrift to the south of the new relief road.

The scheme consists of two L-shaped buildings placed in a back to back configuration on each side of an axial route leading from the students union to the library. In conjunction with the existing buildings they form two spaces of totally different character.

The more substantial weight and presence of the conference centre is employed to define University Square with the played "wings" forming transitional links with Costa Green and the entrance quadrant. The residential building combines with the management centre to enclose a quiet garden.

The conference centre occupies three storeys with the organised around a single-sided access system, which assists in the formation of the pedestrian route and also facilitates the phasing of the construction. The building is generally five storeys in height, to link visually with the existing building, but extends to six storeys on the entrance corner to terminate the library garden space. Generally, the building is given a simpler treatment to that afforded to the conference centre, particularly in the private garden court.

The east-west zone extends in the form of a bridge link at first floor, to the residential building and ends in the garden court. The main dining room, with staff lounge above, occupies the west wing overlooking the entrance quadrant, University

Square and the library gardens to the south.

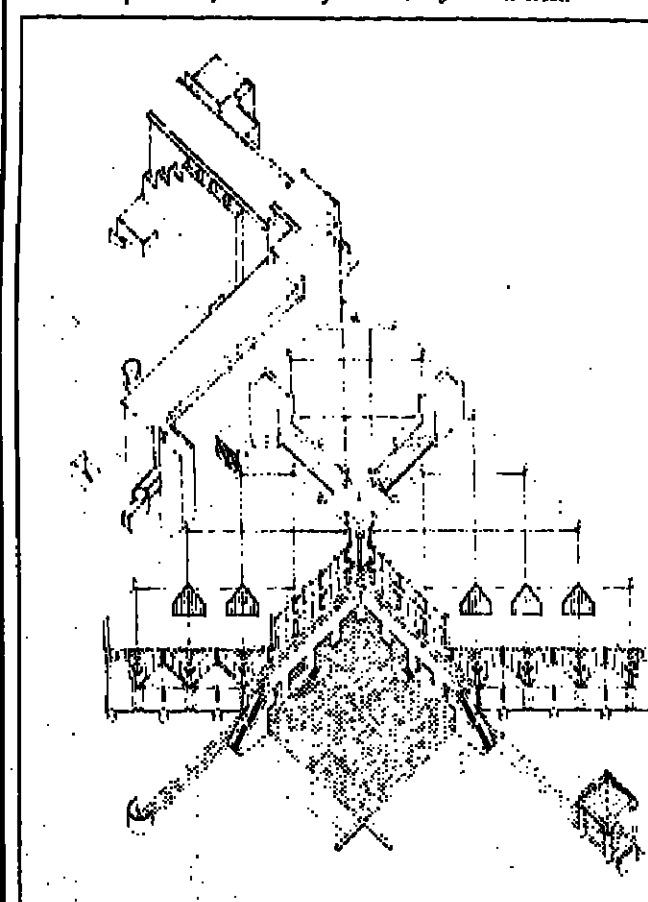
The quieter north wing contains the seminar rooms on two levels with an exhibition circulation area linked by ramp to the ground-floor entrance area. The Main Hall is the prominent element in the design and forms a powerful quadrant addressing University Square diagonally opposite the new entrance to the main building. The rear side of the drum turns the corner at the end of the Costa Green link opening up views of the library and associated gardens.

Internally, the hall occupies a double-height volume and has a ramped floor consisting of a series of curved seating platforms. From the square the building is designed to read as a solid base, hollowed out in the central forum area, surmounted by a two-storey "order" of the principal rooms, giving a lighter and more intricate modelling, capped by a diagonally pitched roof umbrella acting as a unifying element.

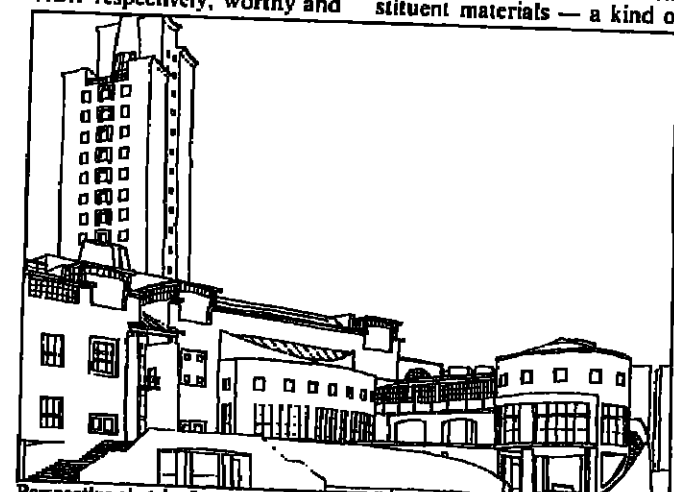
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Architects: Denton Tunley Scott. Design team: Trevor Denton, David Grindley. Structural engineer: Michael Dickson of Buro Happold. Quantity surveyor: Mike Sharman of Davis, Belfield & Everest.



Axonometric view showing relationship of the two L-shaped blocks.



Perspective sketch of second-round proposal by Robert Sakula and Anthony Hudson, incorporating a residential tower. They were assisted by Duncan Holmes, Canny Ash, Geoff Strange, Nick Smith, Alice Brown, Neil Horsey, Jenny Dale, Paul Griffiths and Cathy Fitzgerald. Building economists were John Desmond and Richard Stone of Barnard Williams Associates and structural engineers were Alan Conlson & Assoc.

Assessors' report

WE consider that the eight entries submitted at the second stage of the competition have set a high standard of design.

All the schemes demonstrated an understanding of the difficult problems associated with the context of the site and the need to insert a new University Square related to the scale and form of the immediate surroundings, which are dominated by the heaviness of the large main university building. All the designs fully justified their selection for Stage 2.

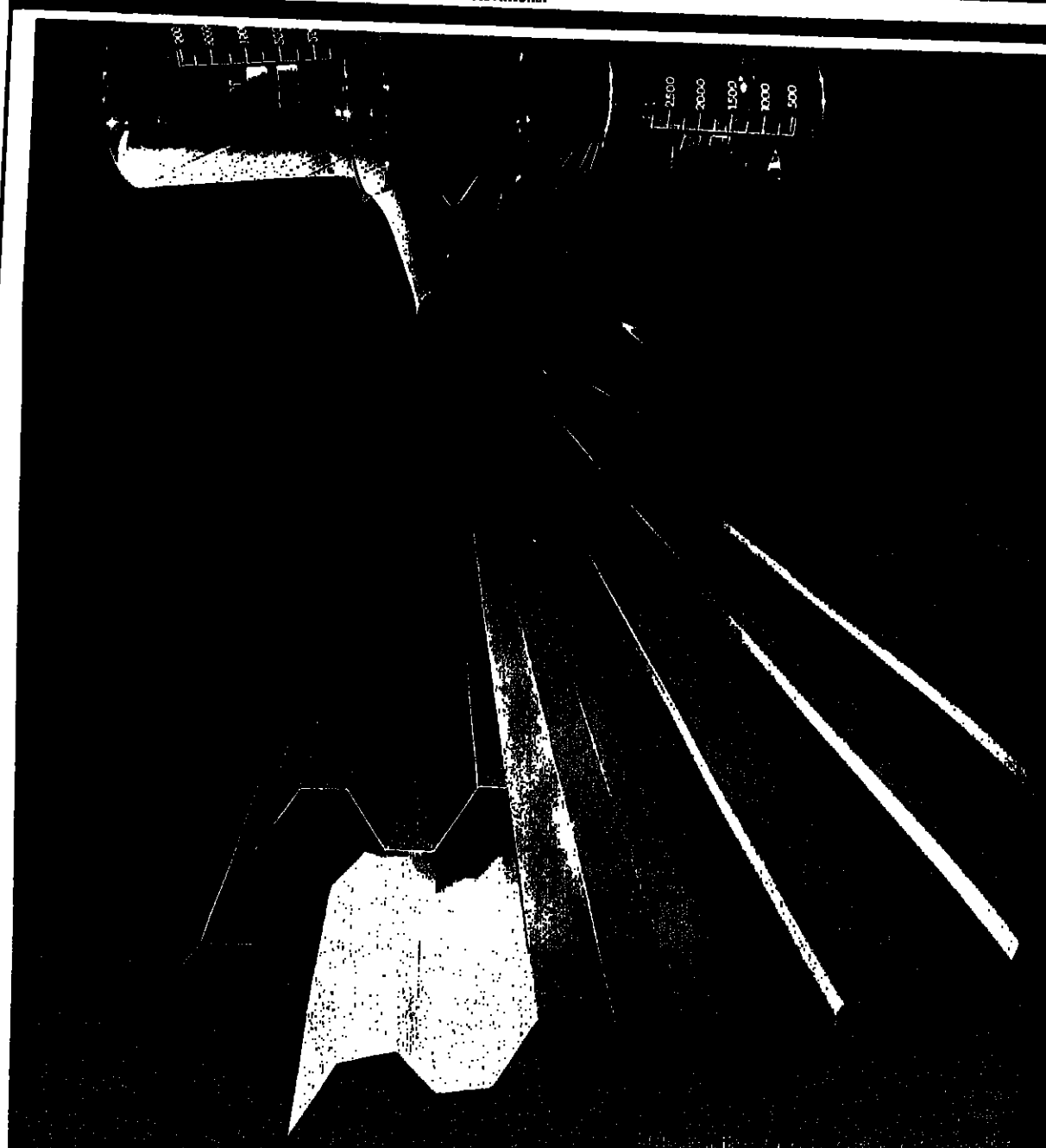
We have chosen scheme 3 as the outright winner. This is an elegant, well-planned building which responds to and successfully resolves the complex pattern of routes and spaces surrounding the site. The form of the building defines the diagonal route while at the same time a rectilinear space is neatly inserted to respond to the main building and make a University Square. The simple plan form reflects a clear and straightforward analysis of the functional components of the brief and solves the organisational and planning problem in a seemingly effortless way. The relationship of the two phases is good, enabling each to be built separately without undue disruption, and the residential building is well related to the management centre.

The elevations, which are sensitive and well controlled, nevertheless give a feeling of stylistic verve. Their overall form and character derives from the materials of brick, stone bands, timber and glass of which the building is made and the larger scale drawings demonstrate an assurance in handling the various components of the design. The roofscape of metal and glass would be attractive when seen from above from the upper windows of the main building.

Scheme 2, which we have placed second, has a more fragmented plan with an attractive north-south route through the building which works well. It must be commended for its exciting massing and the sensitive handling of its various elements. They are, however, small in scale and while they relate well to each other we thought that the main university building would overpower the design.

Scheme 3, which we have placed third, has a well resolved and clearly articulated plan. This scheme deals successfully with the problem of scale relationship to the main building by the device of a screen wall giving a larger framework than the elements of the building would need.

Assessors: John Partridge, Michael Diamond, Paul Koralek, Colin McLish.



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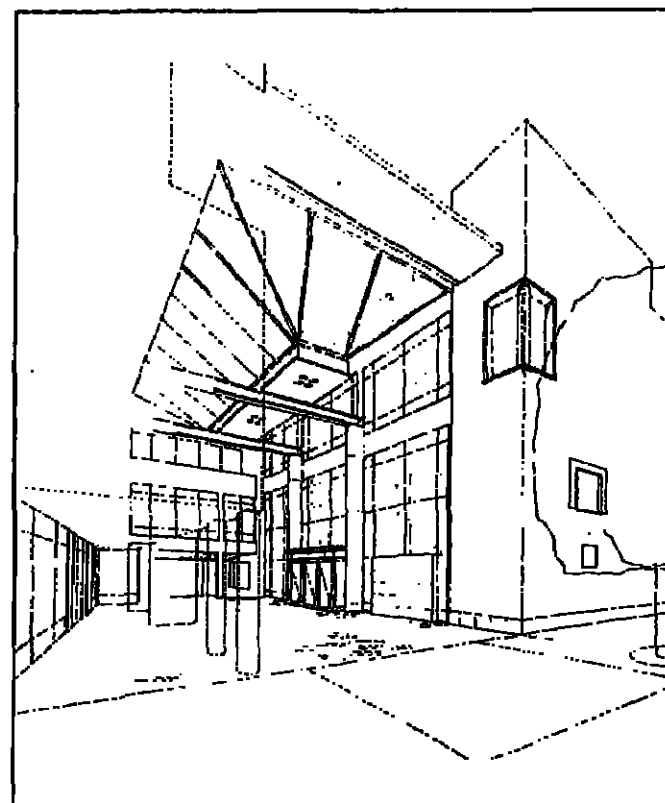
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Aston Competition

Allies & Morrison
(Second)

Perspective view of the main entrance; the glazed valley canopy was employed in the Grand buildings proposal on which the design team worked for YRM.

THE site allocated to the new University Centre is at the heart of the Aston Triangle, in the middle of the campus.

The construction of a new building in this location therefore offers a unique opportunity to unite the somewhat disparate elements of the campus, as well as reinforce the two major external spaces, Gosta Green and the new University Square, that are envisaged in the University Redevelopment Plan.

With this in mind, our attention at the first stage of the competition was concentrated on the organisation of the site and the relationship of the new building to its neighbours, and the strategy established then has remained unchanged.

Central to our proposals is a partially glazed mall which provides a sheltered entrance to the new building but which also connects the north of the site, the Student Union, the Triangle Theatre and Gosta Green, to the

library and the car parks in the south.

A link is also established between the colonnade of the library and the main building, via a route which passes the end of the conference hall, shaped to form a small, external amphitheatre. The forum this creates is situated appropriately at the entrance to the university site; from here pedestrians move into the University Square while vehicles turn into Aston Street to the bus and taxi drop-off point outside the University Centre. Spanning the road at this point a further new external space is established, drawing the library both physically and symbolically into the framework of the new development.

To the University Square itself, the new building offers the significant backdrop of the stepping wall of the conference hall, while the foyer looks out across the square to the entrance to the main building. The

enclosure and stability of the square is reinforced by its termination with the three-storey pavilion of the seminar block, while beneath the interconnecting bridges a route leads through to a garden court created between the new building and the existing Management Centre.

A relationship between the new and existing buildings has been sought not only in plan but in scale and material, and red brick has been chosen for the external walls. Certain key elements however, the interior of the mall, the canopy, the staircase enclosure and the windows to the foyer, are identified as such, and picked out in white.

Although the overall disposition of the buildings has remained unchanged between the first and second stages, some internal reorganisation has resulted from the preference stated by the client for one entry point rather than separate entrances to the different activities. For in concentrating the entrances into a single reception on the east side of the mall, a number of improvements in the arrangement of the rest of the accommodation have also become possible.

Specifically it has allowed the moving of the staff club into a position above the main support area where it can enjoy, paradoxically, both greater privacy and greater contact with the University Square. This in turn has permitted the relocation of the kitchen at ground level, adjacent to the delivery bay and hardstandings.

From the new reception space a major stair (and lift) ascends to the conference facility on the first floor and the dining facility and staff club above, while a minor stair leads separately to the atrium level of the residential block.

The conference facility occupies the "piano nobile", the main hall, enclosed by its support areas, linking northwards to the seminar pavilion and across the mall first to the conference lounge and finally to the foyer of the residential block. The interconnecting

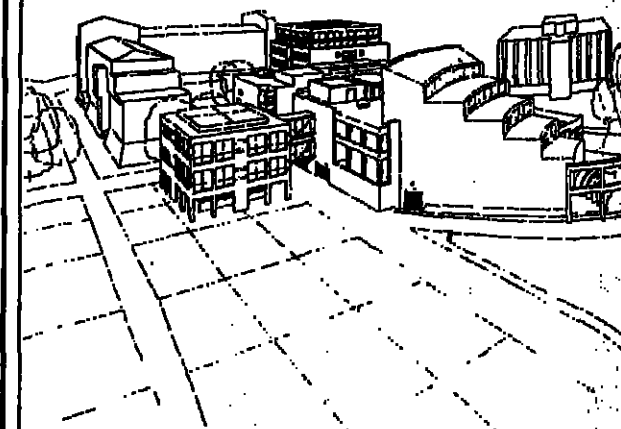
route is substantially occupied by the bar, its linear form encouraging informal encounters between delegates. This now also houses the administrative offices with a view of the entrance and easy access to parts of the building.

The dining hall is located above the lounge, overlooking the garden court, and may be subdivided into four separate areas. The servery is fed by hoists from the kitchen, which extend to serve the dining rooms above. Linking the kitchen to the servery is a spiral accommodation which also provides a connection between the administrative and the main reception.

The staff club is situated across the bridge from the dining hall. The main bar views into the mall and passes into the conference facility below, while a quieter, more lounge faces on to the University Square. From here a staircase up to additional seating areas, the third floor, and the separate rooms each with their own access to the roof terrace. A lift connects the two floors, and is extended to the ground to provide access solely for disabled staff issued with their own keys.

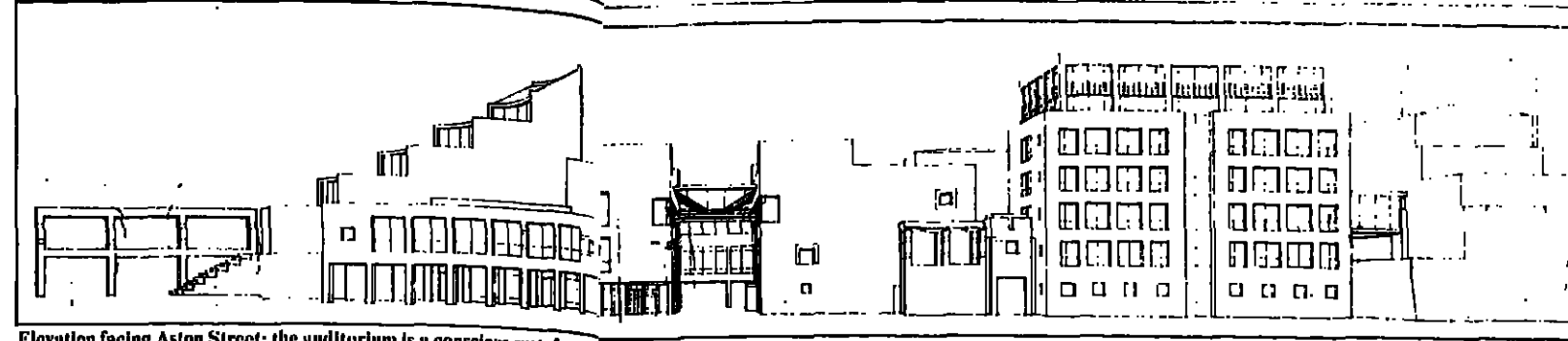
The residential block (Fig 2) is planned as a discreet self-sufficient building, apart from the overall complex but as fundamental to its composition; changes in the scale or nature of its accommodation introduced at a later date could therefore readily be absorbed. The rooms are currently arranged around a central space open to form a courtyard on the upper floors and enclosed to create an atrium below. The commercial accommodation generally occupies the prime position on the ground floor of all the buildings, with lower and mezzanine levels introduced below the conference hall.

Architects: Allies & Morrison, Design team: Bob Allies, Graham Mount, Paul Appleton, Structural engineer: Whitby & Bird, Services engineer: Brian Warwick, Partnership Quantity surveyor: Davis, Bell & Everest.

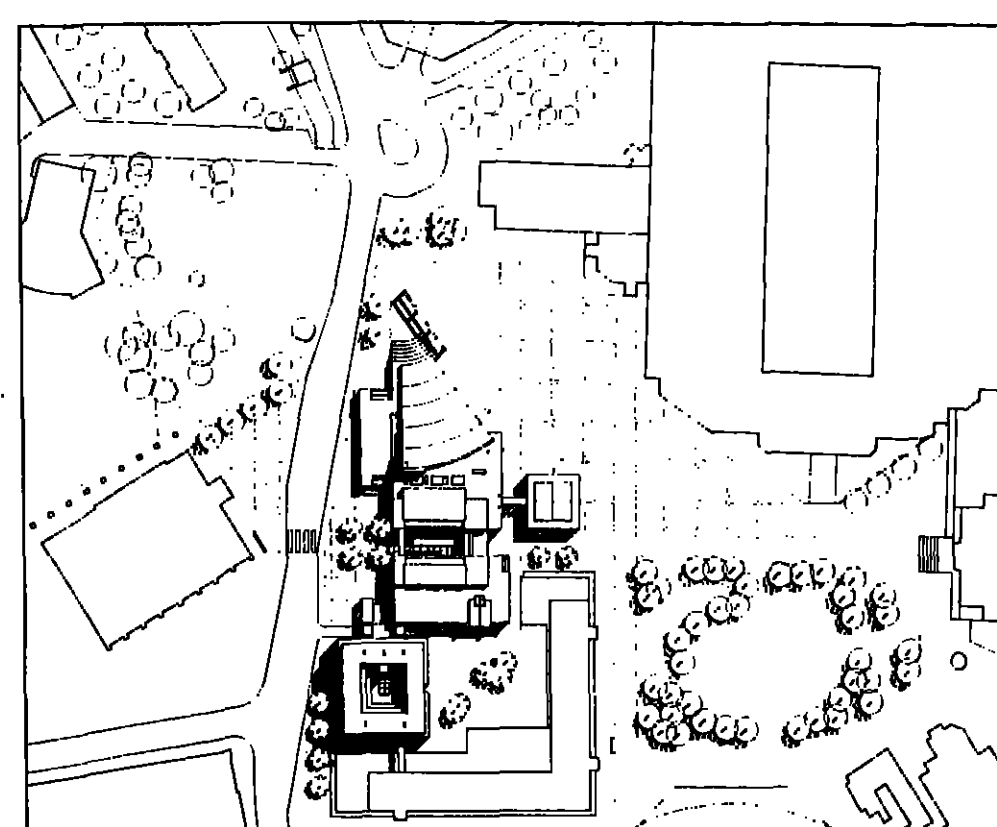


High level view of the proposal across the University Square.

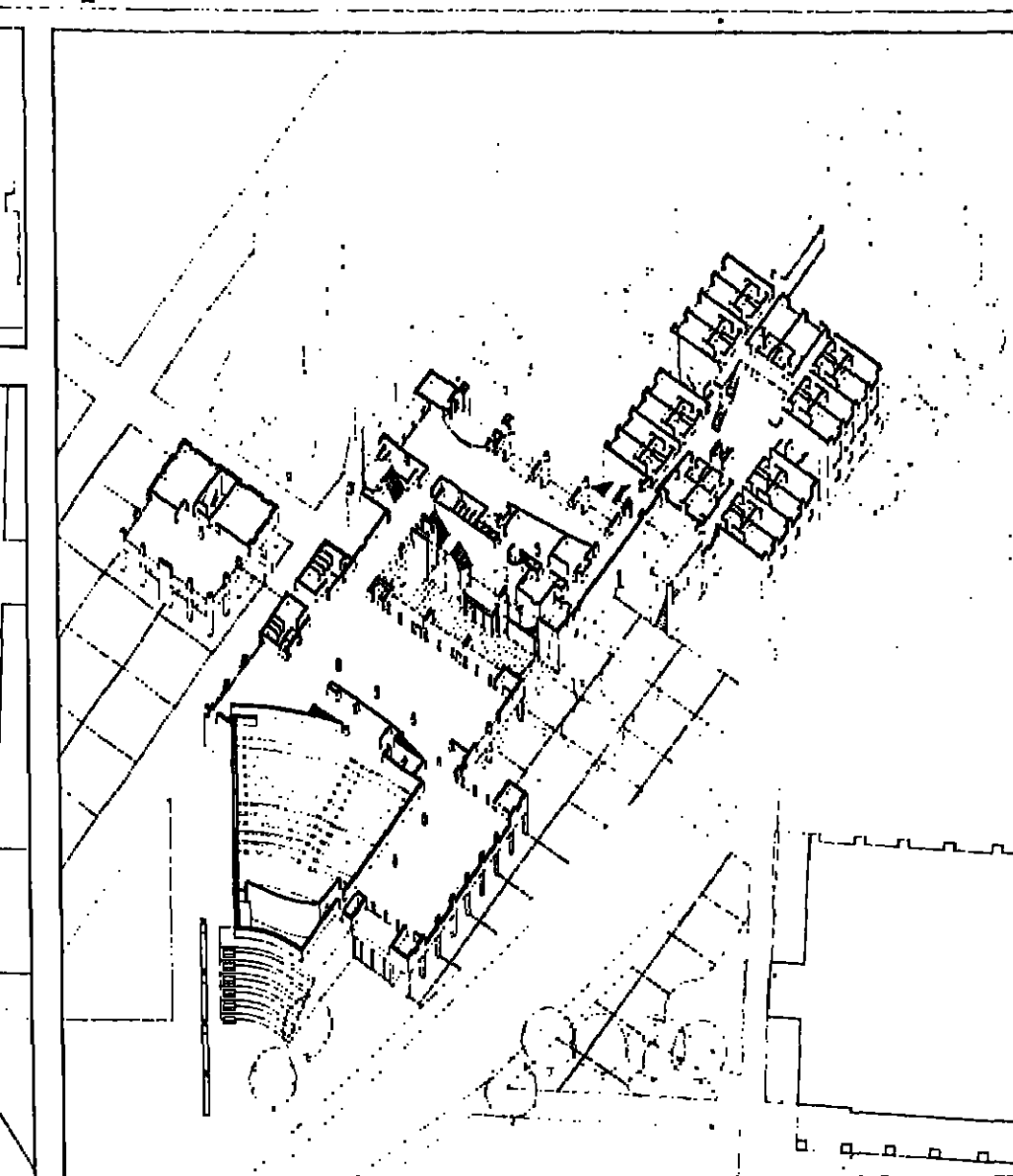
Aston Competition



Elevation facing Aston Street; the auditorium is a conscious quote from the



Site plan showing strategic significance of routes to the library south of the new scheme.



Axonometric showing arrangement of conference facilities.

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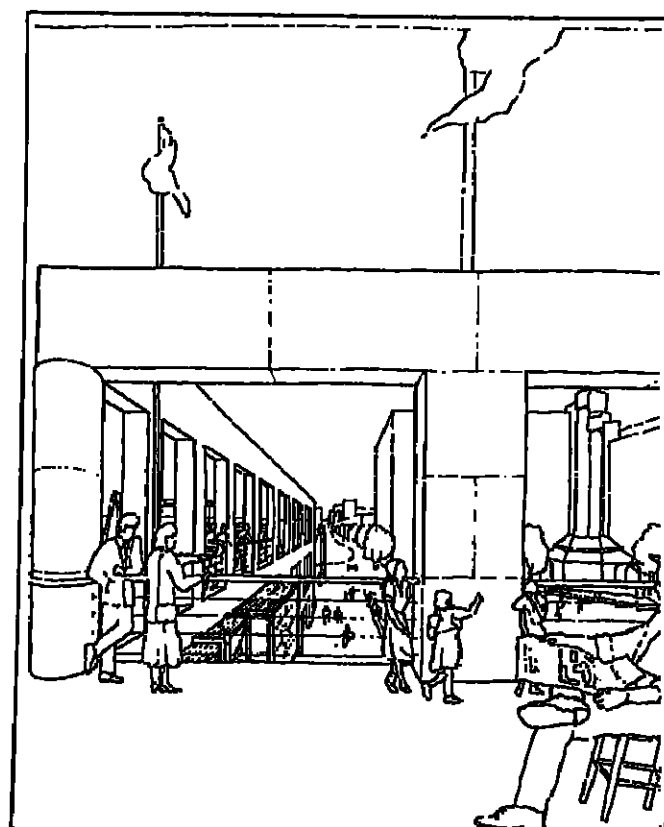
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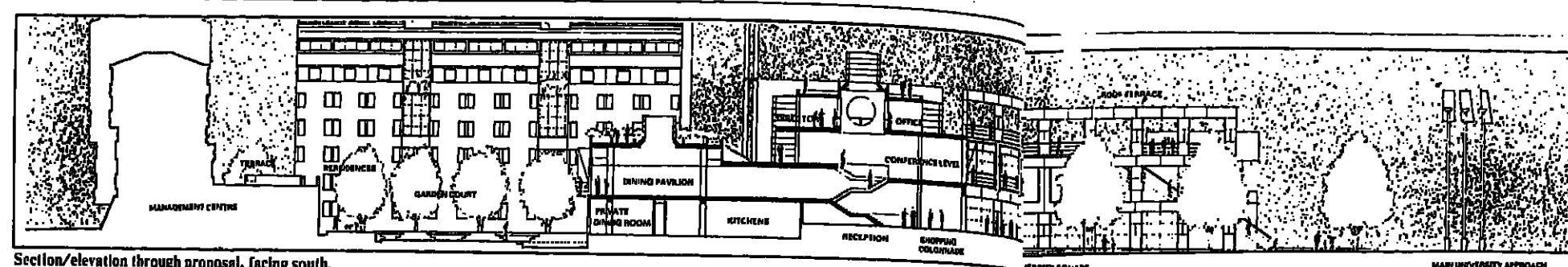
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Perspective view from the screen wall across the university square.



Section/elevation through proposal, facing south.



Above left: model view from the north west across the University Square. Centre: overhead model view showing courtyard arrangement and right: model view from the north east, from over Gosta Green.



the north east, from over Gosta Green.

Information can be projected from skylights and back projection screens to inform the rest of the campus and animate the "heart". Teachers will be drawn through the conference lobbies to reach their faculty club and may profit from the conference facilities and contact with the conferees. Attention has also been paid to the privacy needs of some of the functions in order to allow independence of use within the centre when needed.

External Walls

Stone: Portland stone cladding limited to front screen only fixed in situ frame.

Brick: Simple cavity brickwork to most walls not facing University Square. Colour and type chosen to harmonise with surrounding buildings. Small areas of render to articulate some areas.

Curtain wall: Zones adjacent to screen wall and between residences are articulated as part glazed, part clad walling. Cladding and glazing bars are anodised aluminium.

Steel rail-ings: Balconies, balustrades and other bolt-ons are stove enamelled steel.

Translucent glass: Seminar rooms within the front elevation have translucent, glazed panels for projection screens which transmit through to the square.

Roofs

Terraces: Inverted roof construction with concrete and stone slabs to restrain insulation.

Vaults: Covered in zinc or similar metal sheet roofing.

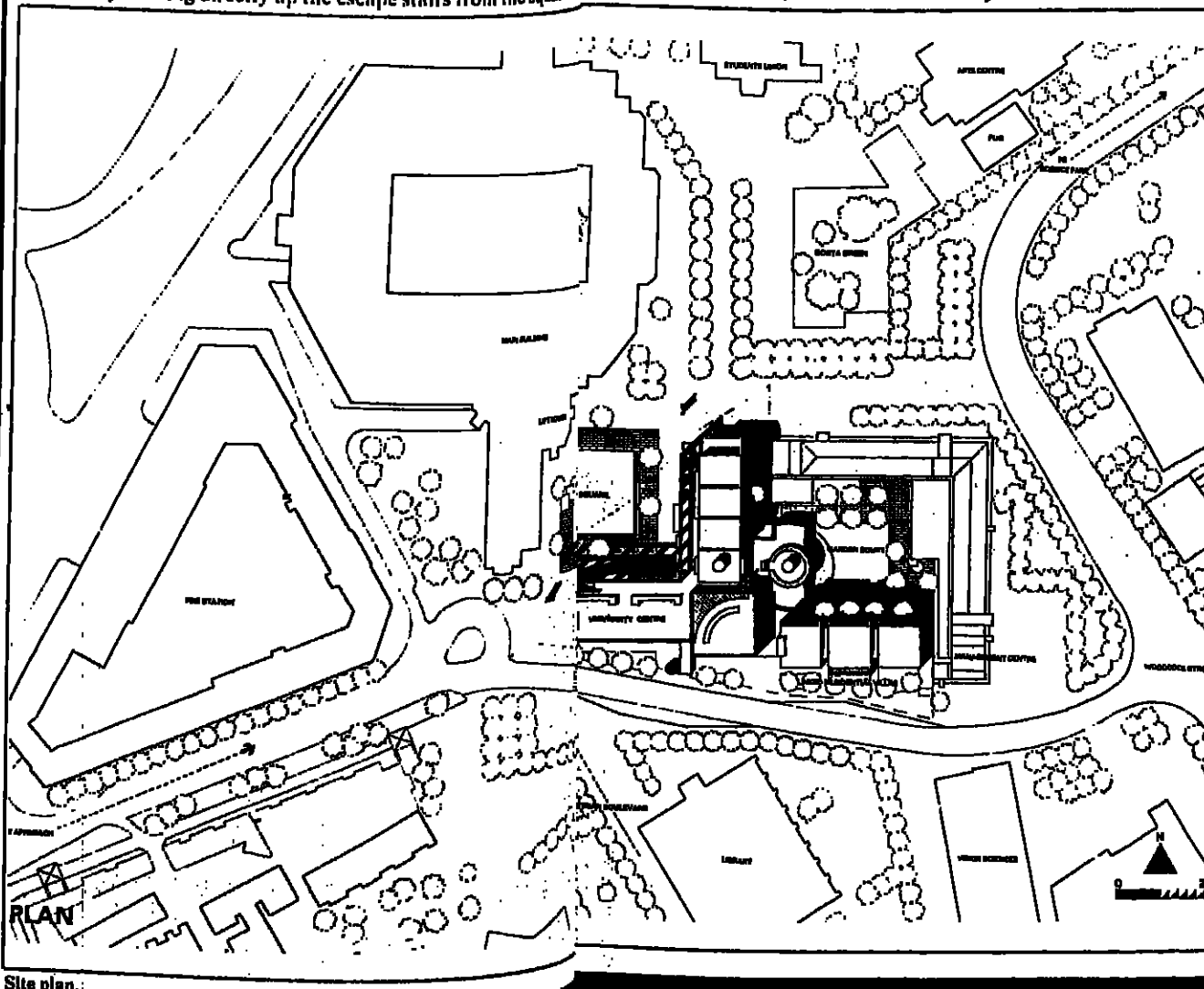
Architects: Munkenbeck & Marshall. Design team: Alfred Munkenbeck, Stephen Marshall, Jonathan McDowell. Structural engineers: Martin Manning (Ove Arup & Partners). Quantity surveyors: Nick Davis (Davis, Bellfield & Everest). Services engineers: Max Fordham (Max Fordham & Partners).

Munkenbeck & Marshall (Third)

THE university's concept is to create a new heart for the Aston. The centre of gravity of the evolving triangular area happened to be a transverse car route. This is being replaced by a more appropriate, which will become the University Square at the centre of the Triangle, heralded by the new lift tower entry to the main academic building on the one side, and the new conference centre on the other. There is a certain irony in the fact that this central component heart does not house a function traditionally associated with curriculum. The goal of this design was to create a building which exploit this irony. The question posed is whether an apparently "heart" can produce even better performance than would the conventional academic variety.

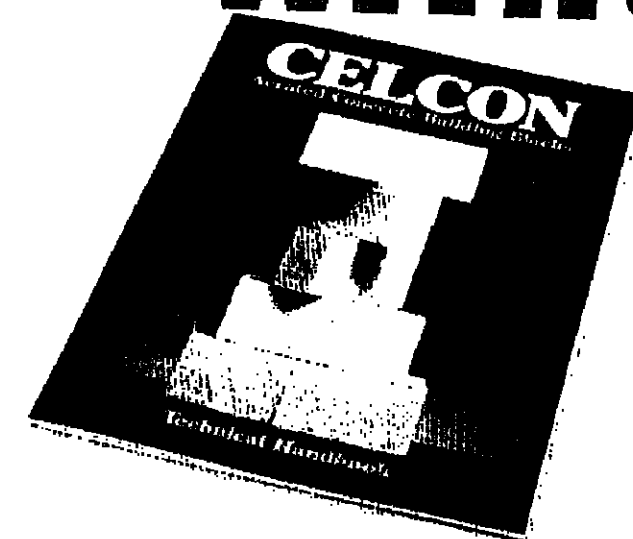
The form of the building is conceived to enclose and create outdoor urban spaces while accommodating the particular requirements of the conference centre. It achieves this by using a consciously elevated elevation to the University Square which not only acts as a screen but also functions as a series of reveal the activities within the centre. The intrusion of the outside onto the campus will be selectively exposed through the ordering of the formal elevation to intrigue the students and motivate them to their own futures.

Having created the intrigue, the building becomes highly accessible to those who wish to see more. Students may watch manifestations of conference activities on the roof as well as on the elevation. They plainly visible from the main academic buildings lift towers and reached by walking directly up the escape stairs from the square.



Site plan.

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Waterproof doesn't mean vapour-proof. This means that provided it's warmer on the inside of your Celcon built house than on the outside, moisture laden air will constantly travel outward. The block and the wall can breathe.

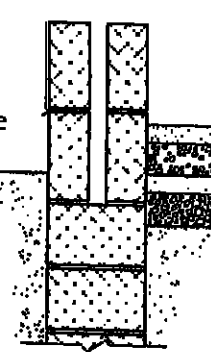
Breathing is an important thing to be able to do when a fire breaks out. With 100 mm. of Celcon between you and a conflagration, four hours could elapse before the air got too hot for your lungs to handle.

There is no magic in this; it's the simple thing that happens when you combine good thermal insulation with non-combustible ingredients.

Good thermal insulation is something the Building Regulations demand. The 0.6 standard can still be met by a real cavity brick wall provided the inner leaf is of 125 mm. Celcon Solar.

The fact that Celcon can be cut with a saw means that messy bodge which usually passes for a reveal at window

openings can neatly be built with clean-cut Celcon fractions. Light though it is, Celcon Solar has a strength of 2.8 Newtons per square millimetre. Celcon Standard exceeds 4 Newtons per square millimetre and Celcon High Strength, 7 Newtons per square millimetre. In practice this means you can build a block of three-storey flats entirely from Celcon, including the walls below dpc.



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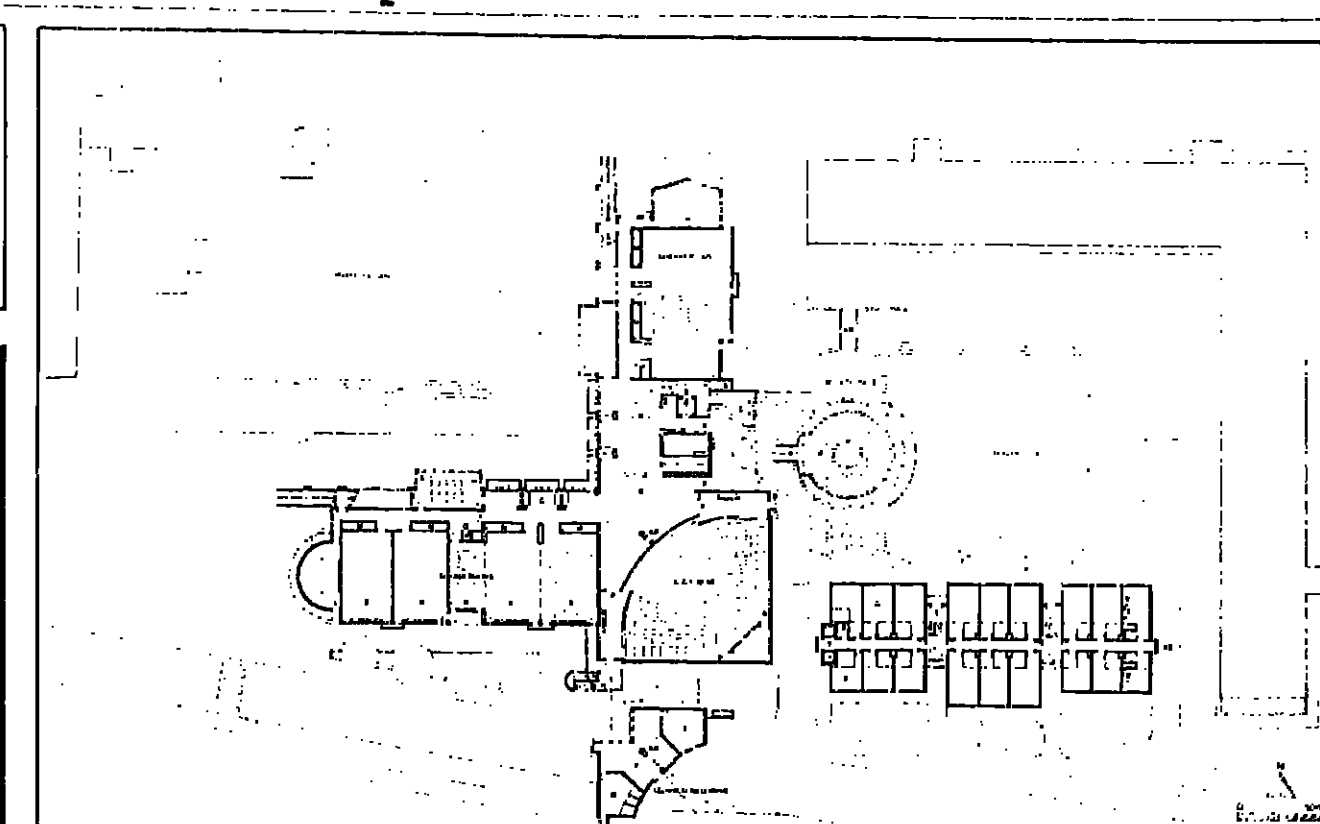
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Aston competition



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WAITING IN THE WINGS

While London decided it didn't want a posthumous monument to Mies van der Rohe at Mansion House, Essen in Germany is shortly due to complete its theatre designed by Alvar Aalto 27 years ago. Brian Walters reports.

ALVAR Aalto won the first prize in the competition to design an opera house for the German city of Essen in 1959. Detailed design continued until 1964, when the project was shelved due to lack of funds.

The city was 80 per cent destroyed during the Second World War and difficulties in its reconstruction have been compounded by the fact that it lies on ground riddled by 26 coal mines. Clearly, the rebuilding work took priority over the construction of the theatre and it remained shelved for many years.

One by one the mines have been closed in the face of competition from cheap imports and as a consequence the whole character of the city has changed.

Not surprisingly, skyscrapers are rare but the city has been innovative in several ways, not least in becoming the first in Germany to plan an extensive

pedestrian area at its heart. The fifth largest city in West Germany, Essen has been chosen as the site for the headquarters of several major commercial and public enterprises.

In 1969, the city council decided to revive the Aalto design, but as a muskheiter, mounting operas, operettas, plays and concerts, rather than as a dedicated opera house. But following the death of the Finnish architect in 1976 and his Essen liaison architect, Horst Loy, the project was halted once more.

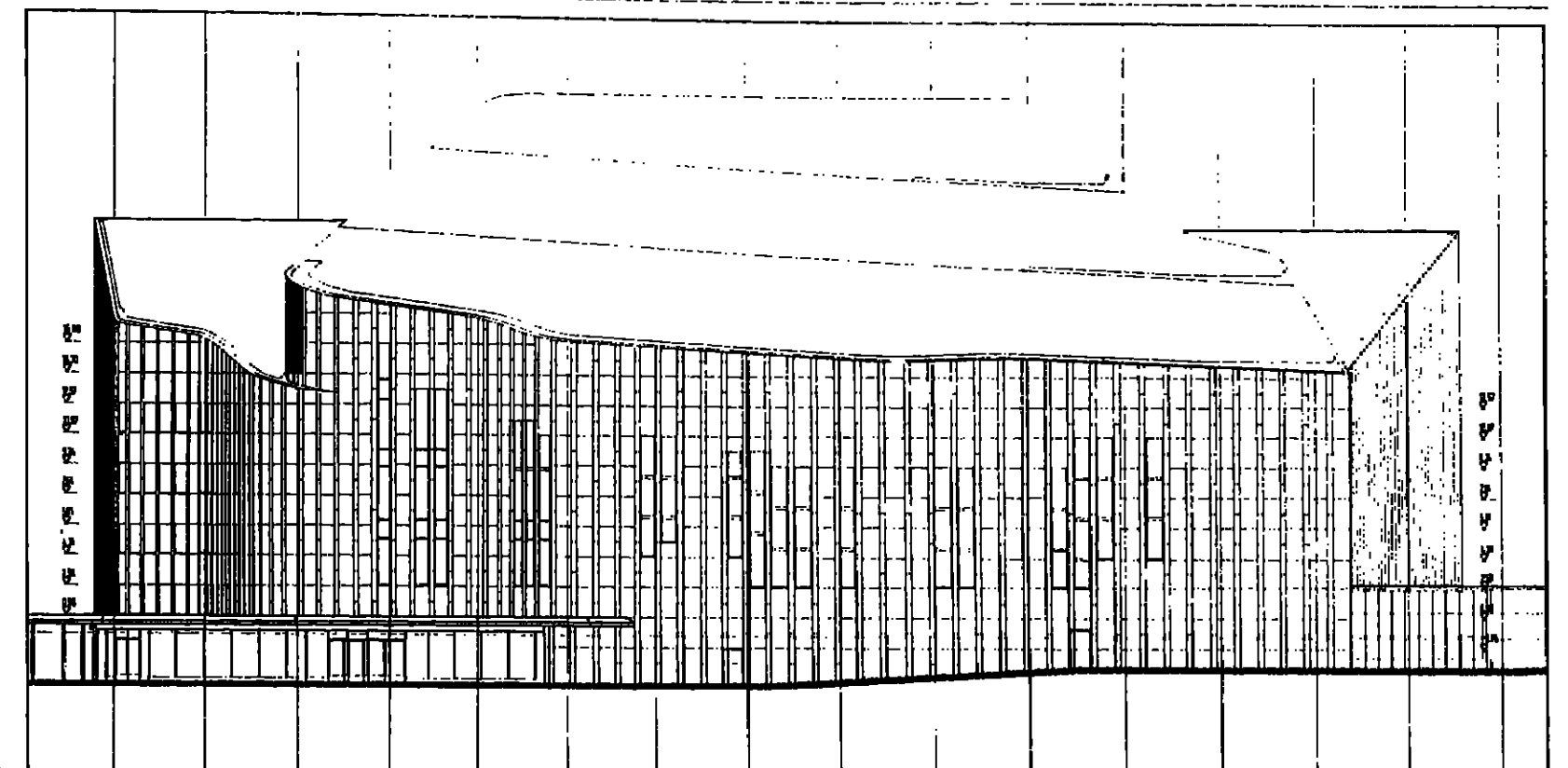
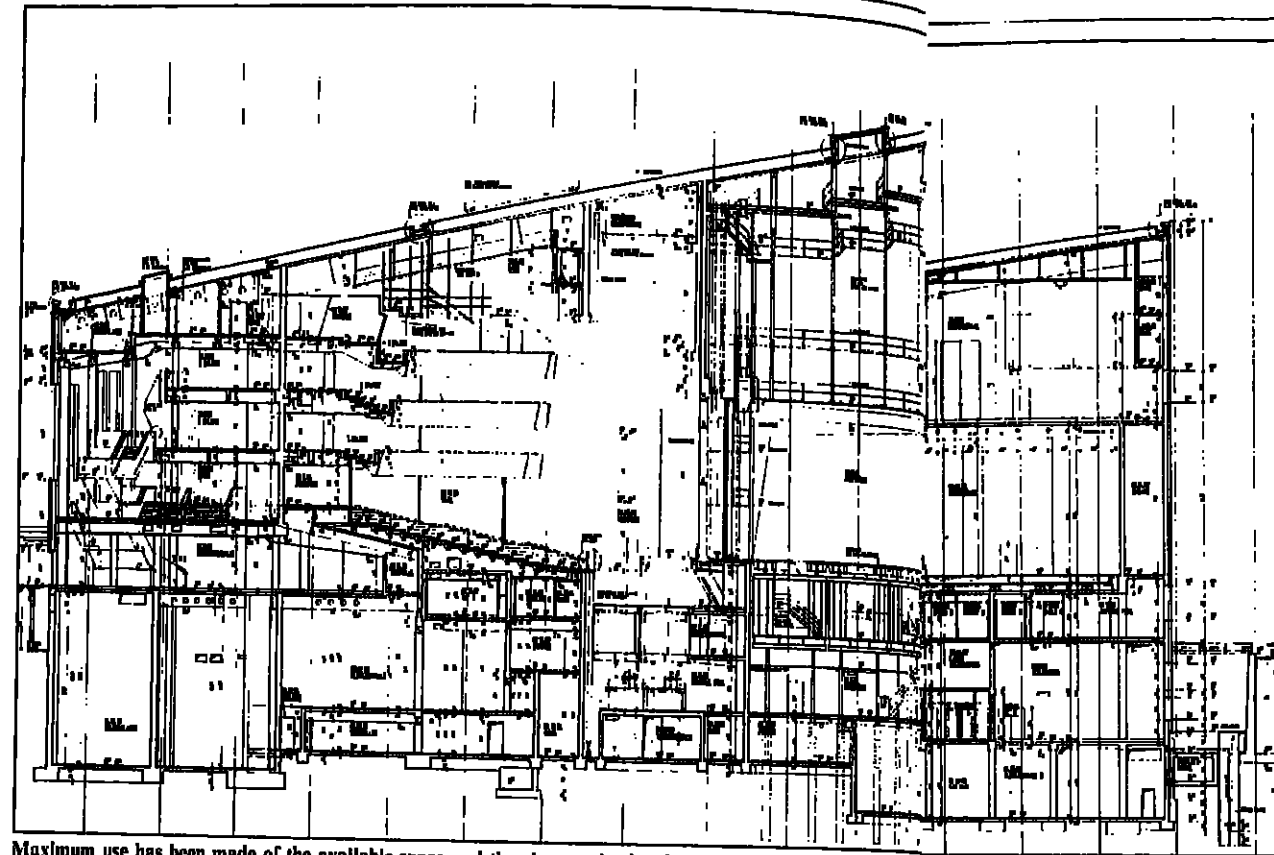
However, the need which had been identified in 1959 remained and in 1981 the project was revived once again, with Düsseldorf-based architect Professor Harald Deilmann being given the task of putting Aalto's plans into effect. In this, he was assisted by the architect's widow, Elissa Aalto, who was commissioned to help interpret the complete design. A qualified architect in her own right, Mme Aalto has been particularly

concerned with the design and planning of the furniture for the theatre.

Although the building is to be a multi-purpose theatre rather than an opera house, the guiding principle of the design team has been the accurate application of Alvar Aalto's original concept. At the same time, the sensitivity of the site—in parkland near the centre of the city—has been appreciated.

The use of a grey granite

Maximum use has been made of the available space and the changes in the theatre's use have been accommodated.



The west elevation of the building best conveys the irregular shape of the theatre.



The current wave of new investment in the British High Street is bringing with it a new stimulus to the sign making art. As new store chains work to establish their own clear identity across all aspects of their business from merchandise to shop fitting, designers are seeking ways to reflect this personality in the external signs of the store.

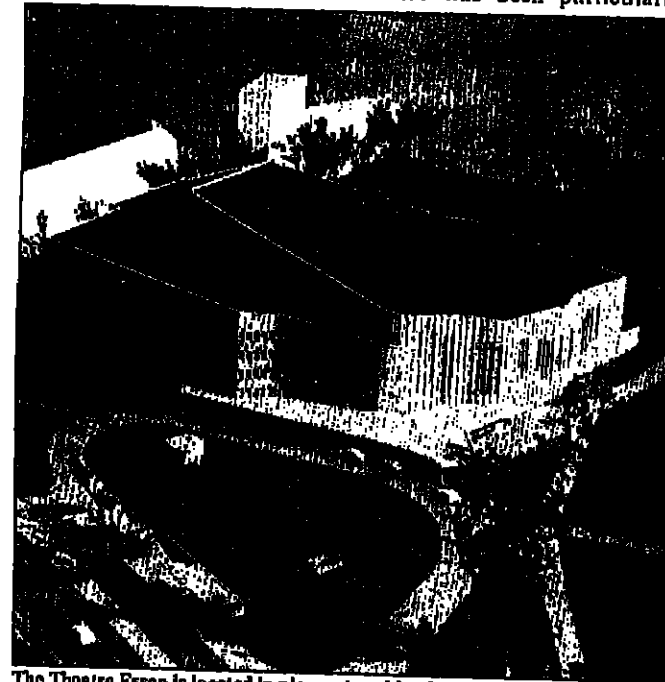
Today retail exteriors must reflect the originality and creativity of the total design concept. And that means sign makers are increasingly challenged with creative and technically demanding fabrications. It is in these respects that the design flexibility, colour range and technical performance of 'Perspex' will prove invaluable, in complementing the sign makers special skills.

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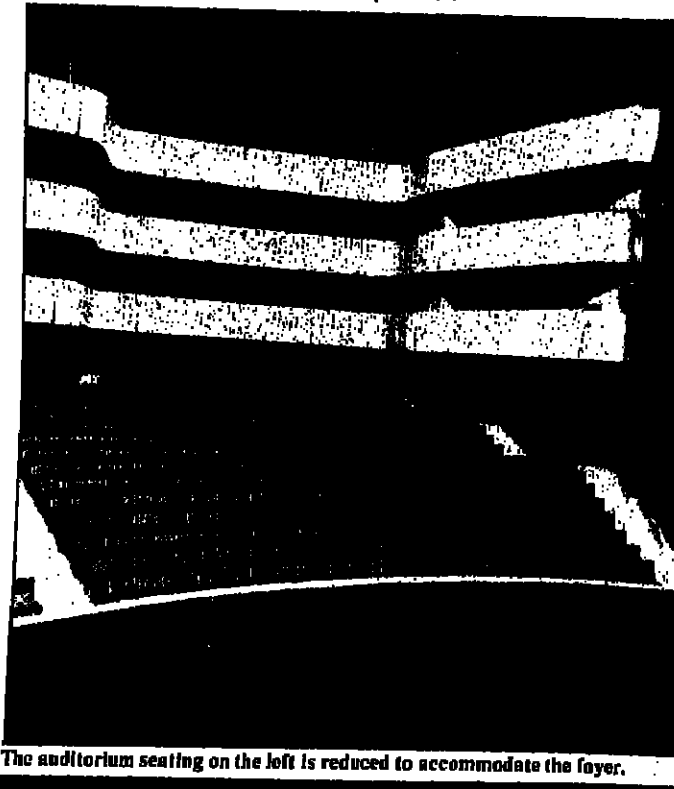
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The Theatre Essen is located in pleasant parkland.



The auditorium seating on the left is reduced to accommodate the foyer.

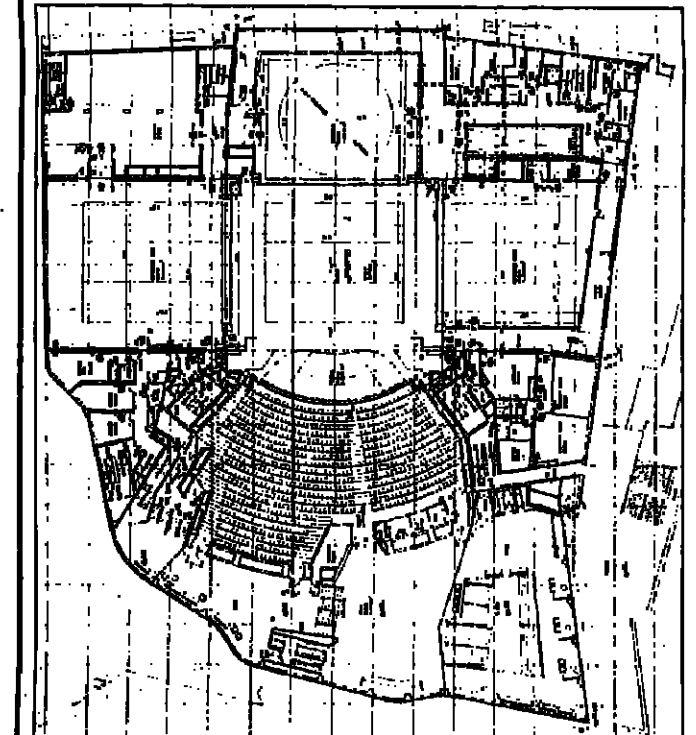
facade, white marble flooring (in the foyer), white and dark-blue interior wall tiles, together with white stucco roughcast, have helped to provide a sympathetic foil to the natural surroundings of the new Theatre Essen.

There are 11 floor levels in the building and many of the rooms have been allocated to such uses as wardrobe/clothes store, workshop, archives. Due to the alterations in the use of the building, some detailed changes, such as the inclusion of ballet and choir rehearsal rooms,

have in the event been necessary.

However, the present architects have been surprised at the ease with which they have been able to apply the original design; changes that have been introduced were designed to lead to simplification in the interests of achieving lower costs.

The Theatre Essen is now largely complete and is to be opened next year — 27 years after the design was originally accepted, and surely the last of Alvar Aalto's projects to be completed.

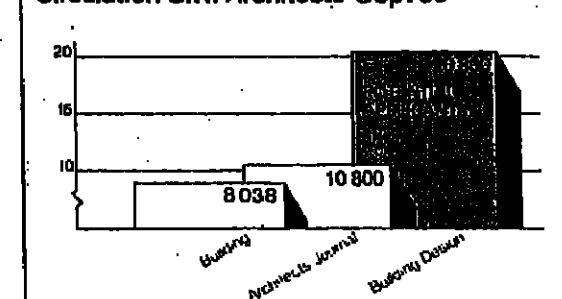


Few alterations to the original design were needed.

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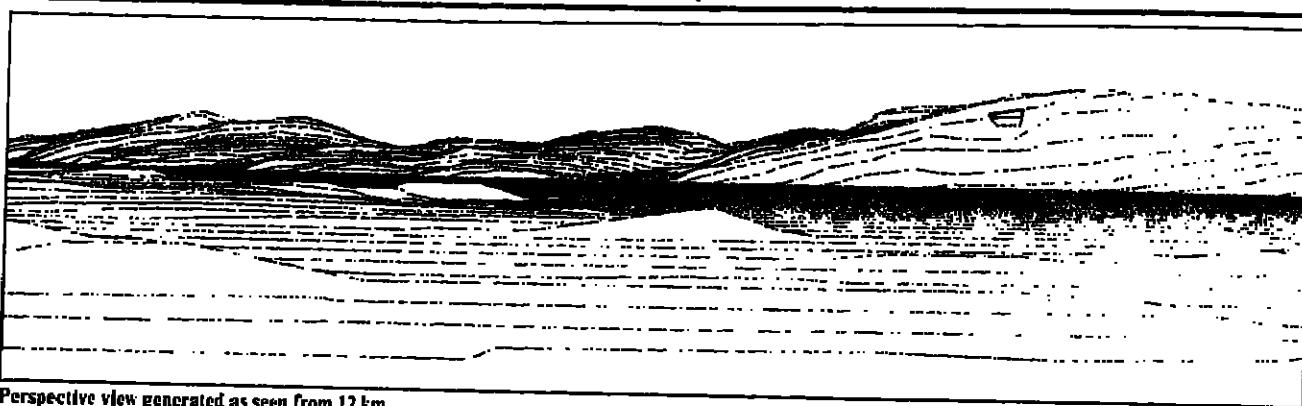
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SOFT OPTION

Landscape architect David Jarvis describes the computer software commissioned by his practice to save time on visual impact assessments.



Perspective view generated as seen from 12 km.

VARIATIONS of "Will I see it from my house?" are usually the first questions from members of the public when faced with a new development proposal.

They ask these questions after a quick flick through the plans and elevations, a pause in front of the glossy perspective and after they have hovered, trying to find their Monopoly-sized house on the landscape model. To answer these questions it is necessary either to have executed hundreds of thousands of sections or have the facility to execute them rapidly at the time the question is asked; it is also desirable to produce rapid perspectives at the same time.

Do the planner and architect know themselves what their proposal will look like from this house, or indeed, from the other thousand houses in the area? — or from the footpaths, roads, motorways? Do they know what it will look like from these viewpoints in five years time when vegetation will have grown or phase three will have been built or the quarry face will have moved 100 metres?

How useful would it be if the planner or architect could move the structure 100 metres to the west or sink it another three metres or regroup the buildings or rearrange the car parking layout and then "instantly" be aware of where in the surrounding 20 or 30 kilometres the proposal could be seen? How useful would it then be to "instantly" create selected perspectives from viewpoints within this surrounding countryside to assess the visual quality and/or intrusion? It would also be useful to have "instant" volumetric calculations so that the cut and fill implications of a design change are available as well.

With ever-increasing environmental awareness and the concomitant growth in national government and EEC legislation and EIA directives, the demand for comprehensive visual impact assessment also grows, putting further pressure on the planner and architect to provide this service.

It was to cope with this increased demand and to raise the zone of visual influence (ZVI) plan and perspective to a design tool and not just a final presentation technique, that our practice commissioned computer software. It was intended to have two further advantages; first, the computer would remove the ever-increasing time spent on purely manual, quantitative tasks (volume calculations/visibility sections/setting up perspectives/area/measurement/slope analysis etc) and release them for qualitative decision making; secondly, the quality and quantity of available visual, volumetric etc information should lead to better planning and design solutions.

The latter has a spin-off at the public consultation/public inquiry stage, where the "instantly" generated perspective allows the parties to discuss the positive and negative merits of a view without wasting time arguing on what is the view and whether the proposal could be seen or not.

The Programme: The first stage for both programmes is to create a three-dimensional model in the computer of the 20 or 30 kilometres of surrounding area. This can either be digitised from Ordnance Survey maps and company surveys or, ultimately, aerial survey information transferred directly by disc. Surface features such as woodland, buildings and walls are colour and symbol coded. The computer forms a model and produces a contour plan to any scale so that this can be checked against the base information.

All information is put into the

computer at the most efficient scale. For example, the 20 or 30 kilometre zone may be put in at 1:10,000 scale, a prominent viewpoint at 1:2,500, the site area at 1:1,250 and the proposed buildings at 1:200.

A master disc is kept from which copies can be made. Into these copies can be added alternative proposals or proposals. All or any part of a building/structure/motorway/quarry etc can be "tagged" so that the totality or a specific part of the proposal can be analysed for its visual impact. Areas from which car parking could be seen or from which the roofscape or even clockface on a clocktower could be seen are easily tested.

The proposal or part of the proposal can be tested on a "bald" landscape or with relevant surface features added. Running the test on a "bald" landscape is useful in that it gives the worst possible case. A viewpoint from which a proposal cannot be seen across a bald landscape will never have a view of the proposal even if every tree/wall/hedge/building is razed to the ground.

A choice now has to be made between asking for a single specific visual study from one viewpoint or a wider analysis from all viewpoints on a defined grid. Typically a 200 grid is used initially and the computer analyses sections through the proposal from every viewpoint on the grid. This could be one section from each viewpoint to test who can see the top of a flagpole to 20 plus sections from each viewpoint to test for a complex roof layout. The results are displayed as illustrated here; crosses represent no intervisibility and numbers represent the number of sections that registered intervisibility from those viewpoints. This first grid study has simply established those areas from which the proposal could or could not be seen, by checking hundreds of thousands of sections.

The very rapid one-point study allows individual house, picnic areas, footpaths, bridges etc to be selected on a specific test of intervisibility run. But this time those sections registering intervisibility are identified by radiating connecting lines so that it is known which parts of the proposal can be seen. This may show, for instance, that the broad areas established in the grid test as having a view of the proposal are, in fact, only seeing one building of a group or one length of a wall. These sections are then displayed in elevation on the screen so that, for example, the height of wall which is visible can be established. This is to check whether the viewer would get a mere glimpse of a wall or would see the whole expanse.

In both the grid ZVIs and the one-point studies, the computer

asks that the height of viewpoint be selected so views can be checked from bridges, bedroom windows, moving traffic etc. If no height is selected, then the computer defaults to "eye-level".

Having established who can

see the proposal or part of the proposal from where, we are now able to establish what they will see from where. The major feature of this programme is that any viewpoint in the 20 or 30 kilometre zone can be selected and a simple line perspective of

the proposal in its setting created. For example, a house is identified as the viewpoint using the cursor on the map on the A0 electronic drawing board and the bedroom window height is entered.

The "proposal" is identified

Perspective view from 12 km.

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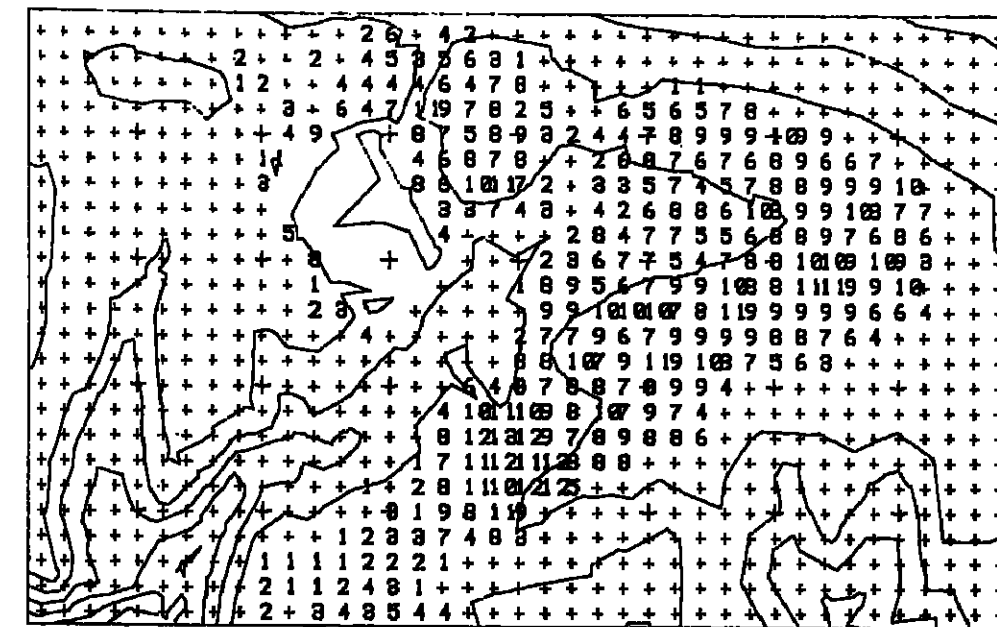


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Computers



Zones of visual influence plans: crosses represent no intervisibility and numbers represent the number of sections that registered intervisibility from those viewpoints.

using the cursor in the same way as for establishing the viewpoint of the perspective. The perspective is corrected for curvature of the earth and light refraction and offers any field of view so that the perspective may be

readily matched to photographs for montage and to camera lens information.

The computer can be used to create a series of perspectives of the proposal along an approach route (by repeating the technique already described). This allows, for example, the creation of a perspective out of the side-way, or the oblique view from the motorway feeder road. These programmes are not intended to repeat what is already excellently covered in architectural software but rather to deal with the building in its setting as viewed all the way out to visual infinity.

There are two other facilities within the software with a third currently being written.

● **Volume Calculations:** top and bottom of geological strata can also be digitised as well as the surface contours. Instant volumes can be calculated of any strata/combination of strata. This provides topsoil/subsoil volume calculations as well as cut and fill for site groundworks.

● **Slope Analysis:** up to six ranges of slope (eg 5 per cent to 10 per cent) can be defined and given a colour code. The computer will then examine the whole 20 or 30 kilometre area analysing the slopes into the correct ranges and colours. This is particularly useful when it is necessary to tie proposals into the surrounding landscape or where certain agricultural uses or transport gradients require specific slope limitations.

● **Sieve Mapping:** (currently being written). This programme will allow sub surface, surface, land use, land designation etc

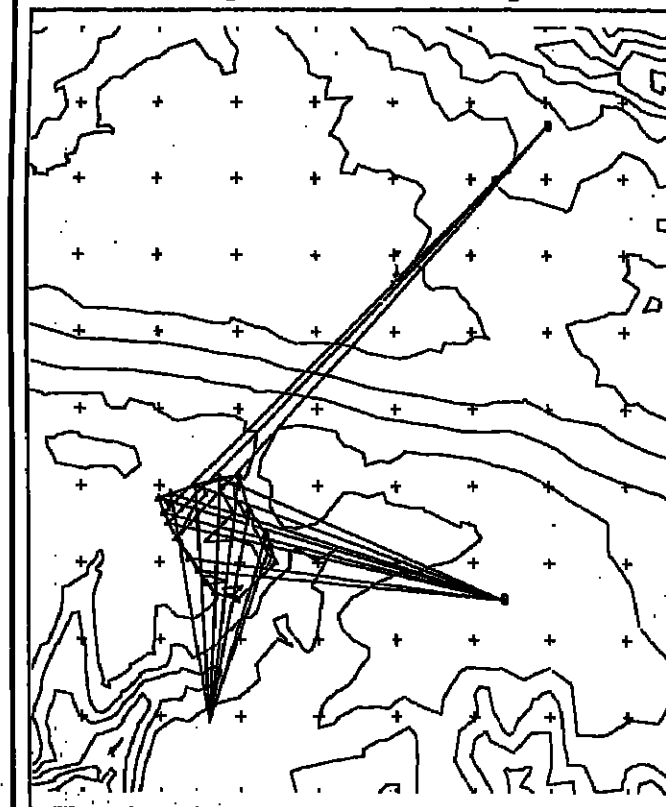
information up to a county in size to be digitised. Any combination of factors can be sieve mapped and quantified (together with the interface length measured).

The system has now been used on projects as diverse as industrial parks, hotels, government buildings, motorways and quarries. The test areas have ranges upwards to 625 square kilometres of complex Scottish landscape. The clients have included government bodies, national companies, landscape practices and architectural practices.

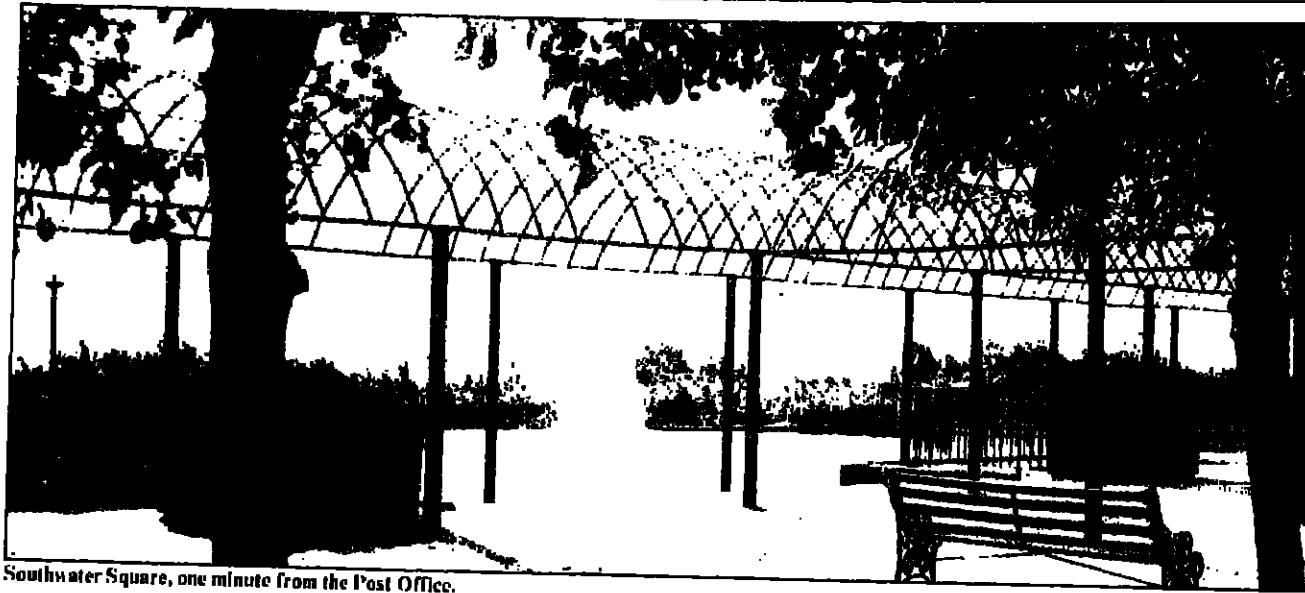
Many local authorities have now had experience of this level of appraisal and computer generated ZVI plans and perspectives may well become an expected part of any major planning application. Similarly, a computer and large screen may become standard equipment at public enquiries, this would enable a perspective from any house or road to be established automatically.

Computers which produce this visual/volumetric/slope/overlay information are not usurping the role of the designer. We could all sit down and check 500,000 plus sections by hand but why waste a year when they can be produced in a week, giving the planner and designer more information and more time to plan and design.

David Jarvis Associates are a Swindon-based landscape practice specialising in major industrial, commercial, national infrastructure and mineral extraction planning and design throughout the United Kingdom.



Studies from three viewpoints.



Southwater Square, one minute from the Post Office.

Late developer

from page 29
new bus station shows off, exuberant in bright colours and confident about its robust use of materials. The M54, dreamed of for so long, is important in the town's developing prosperity. Even more unusual is that rarest of rarities, a new-town centre station, which was opened by Lord Murray earlier this year, while a 100-bed hotel shows that Telford really means business.

Among the remaining isolated and appended town centre buildings, basic urban quality is being realised at last. The simple matter of a square, which eluded the town centre for so long, has been achieved in Central Square where a curtain of water thrills the ear and cools wilting shoppers on a hot day.

Central Telford's greatest asset, however, is the unique relationship of buildings and parks, for it is possible to step out of the Post Office and in one minute be standing in Southwater Square, at the gateway to the urban park. In these meet-

ings and minglings of buildings and landscape dwell the spirit of contemporary Telford and its hopes for the future.

Along these interfaces are endless possibilities for magnificent statements of landscape and architecture like that already achieved here at Southwater Square, a space of great order and integrity with elegant Black Alders and romantic metal pergolas.

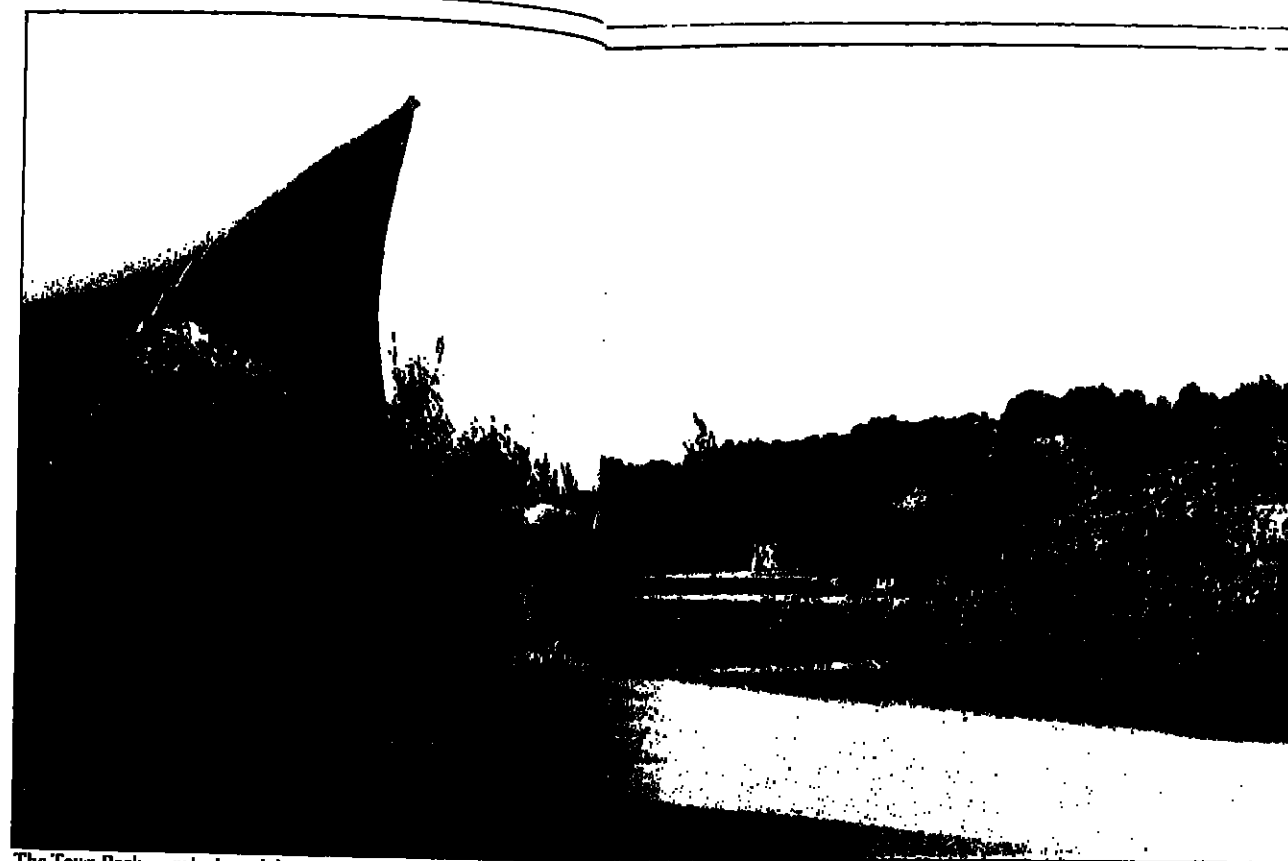
Tilting the floor backwards has dramatised the park approach by half concealing it, a fine townscape technique. The tension is irresistible and expectations are satisfied by a spuming geyser frothing into a new lake.

A flight of steps takes you directly into the 450-acre park fashioned from old pit mounds, canals, reservoirs, cart-tracks and run-down pasture. There is a large play area dominated by a giant space net, and a rich knot of award-winning pleasure gardens — as good a piece of park as you will find anywhere.

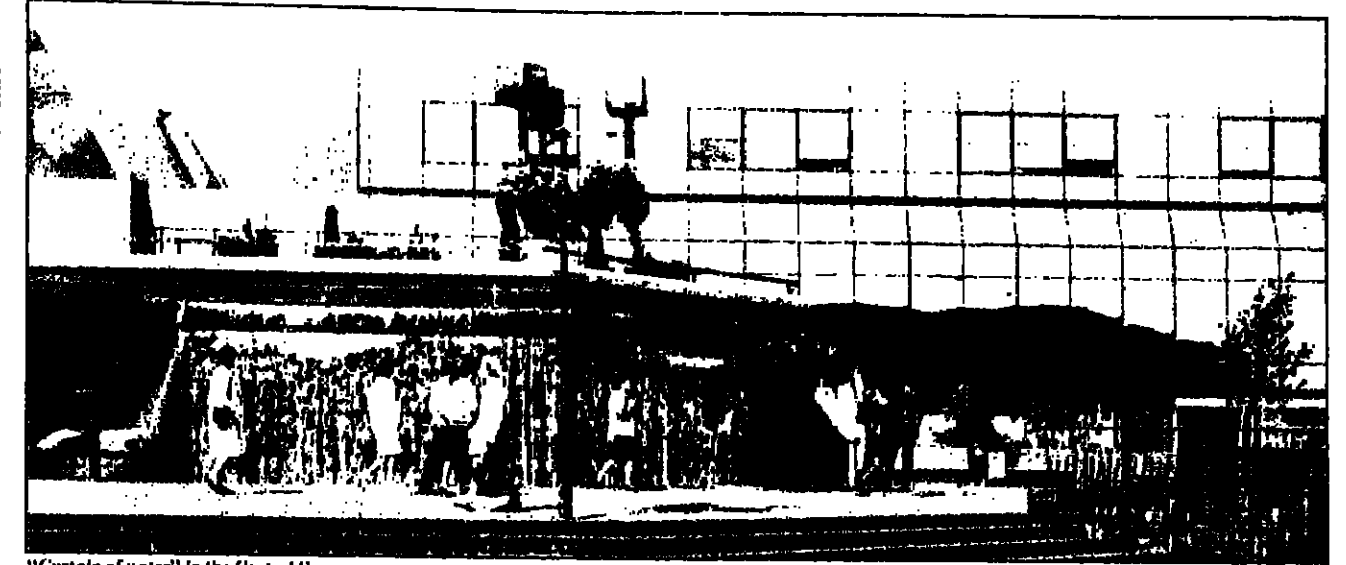
Beyond there are priceless

riches: endless walks amid dense woodland and rich wildlife; several lakes; esplanades; a children's wonderland of fairy-tale houses in a dreamy dell watched over by the Wrekin Giant high over the tree-tops; an open-air lakeside amphitheatre; an arena geared up to a very full programme of events of which the Telford Show attracts most

sub-regional fame; and there are indoor tennis courts, ice-rink and a garden centre. All this was to have been linked, in garden festival style, by a narrow-gauge railway, a project now mysteriously shelved. The only shadow over this happy piece of town centre landscape is a rumour of housing development in the park which must surely be just a



The Town Park — priceless riches.



"Curtain of water" in the Central Square.

bad joke.

The town park's counterpart to the north of the town centre and close to the M54 is the Telford Business Park, where buildings and trees create the feeling of being in a town which cares about fine living. Here the construction of sculptural earth ramparts has strongly defined the edge of the town centre,

although more trees are needed to increase the scale and to establish places which draw office workers for a break or lunch-time chat. Nevertheless "The Ramparts", as they are known locally, successfully illustrate one of Kevin Lynch's key imaging elements, described at length in his famous book *The Image of the City*.

Contained by this remarkable earthwork, there are places among the buildings where the feel of the town has really taken hold. The vertical scale is strong and reassuring that Telford intends to become a real town, not some contemporary drawing board apology for urban living. Trees are important in structuring the spaces and do so with the conviction of a London Square or a Paris boulevard. With this kind of positive environmental engineering someone at Telford should seize the chance of linking Business Park and Town Park around the edge of the town centre through leafy avenues, places to wander in broken light or to sit in sun or shade.

Telford has for long seemed immature — a late developer. Now it has entered a period of increasing prosperity, grace and elegance. The recent promotion of Telford's commercial director to the position of general manager suggests that hard-headed commercial policies will be applied, but these must be paralleled by a commitment to excellence in urban design.

The town still needs more

substantial, finely proportioned buildings with a growing richness of detail and articulation embodied in things like promenades, courtyard gardens, arcades, dramatic staircases, intriguing passages, carefully contrived views, galleries, balconies, authentic and integral ornament, walls of green climbers, pools of shade and light. If Telford is looking for specific projects there is still time to transform the ring road into four grand avenues, and it is encouraging to hear that at least one of the surface car parks will shortly be built over.

The remaining years of Telford's life as a new town corporation could be used simply to build the slickest centre of retailing and commerce in Shropshire, in which case the town will be no different from its contemporaries. If, however, the remaining tasks of town building are tackled with the conviction that good design matters and that there is a spiritual as well as a material dimension to urban development, then Telford still could be the best green field new town ever.

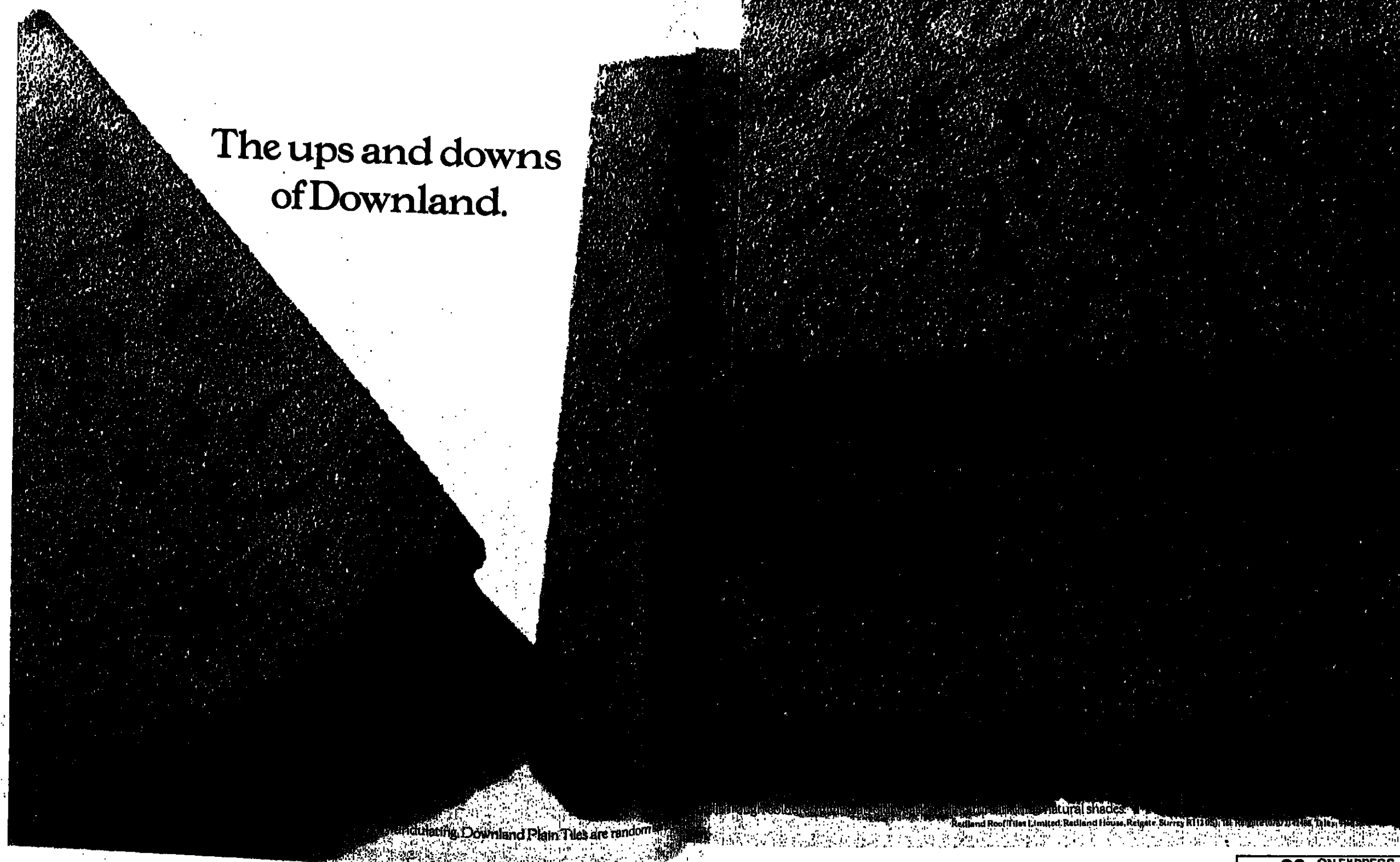


The town has acres of car parks.

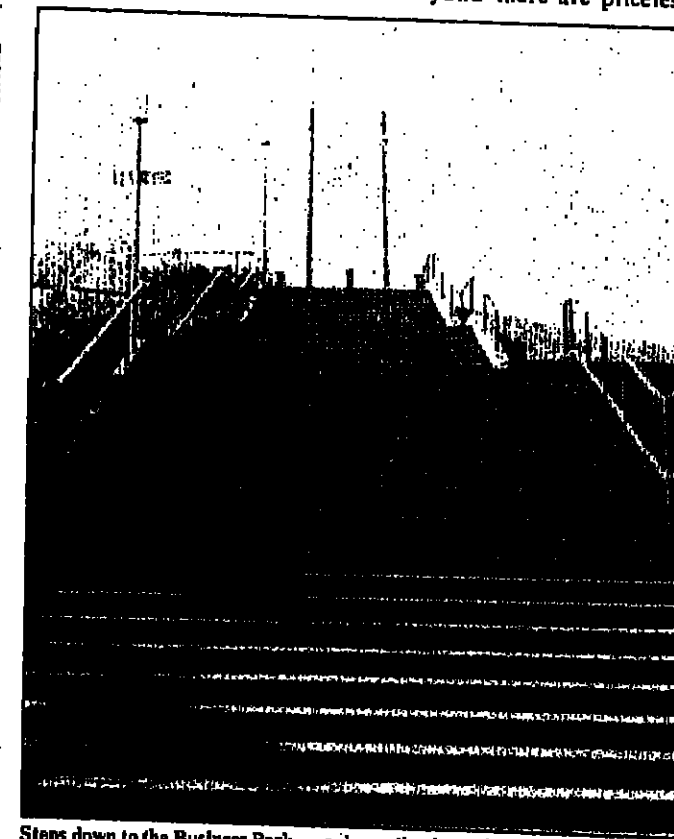


Part of the town centre ring road — a chance to make a grand avenue.

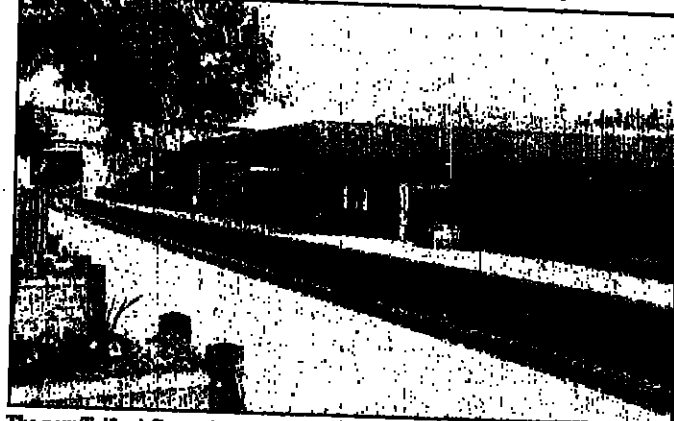
The ups and downs of Downland.



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Steps down to the Business Park — a dramatic piece of townscape.



The new Telford Central Station.

Waiting for the quake

By Tim Buxbaum

Tokyo: The City at the End of the World, by Peter Popham (Kodansha International).

AT first glance the high points of this intriguing book are the surrealistic photographs by Tsumehisa Kimura, and the frightening and appalling description of the "inevitable" earthquake which threatens to flatten much of Tokyo any day now.

Perhaps more potent than these images are Peter Popham's observations of the Japanese themselves — the 28 million or so who inhabit the enormous conurbation of Tokyo. The book is based in part on a series

of interviews made between 1982-85. He talks about city dwellers who twice this century have raised their capital city from ashes, the charred remnants of earthquake and bomb people who have perhaps come to terms with living at the brink of yet another abyss and celebrate ephemerality and impermanence in their electric fairyland.

Who says buildings have to last forever? — here they shout at each other, age quickly, and are superseded. People no longer live at a place, he says — they live at a given distance from a place. He talks about the determination of these city dwellers to "catch up with the West" and understand it in conjunction with Japan's own cultural heritage, all the while matching natural flamboyance at home with stealth abroad and striking international self-effacement at a time of increasing power and influence. And he talks about the national preoccupation with "keihaku tansho" (lightweight, skindcep, short and small), those winning characteristics of the Japanese industrial miracle which are so firmly the essence of the camera, gadget, and even car.

Through a series of vignettes of Tokyo life and portraits of specific characters rich and poor, a collage of impressions is built up of this vibrant bizarre city. The pictures are not exhaustive or complete, but how could it be? Properly developed, Love Hotel, department store, Ginza, Shinjuku, Akasaka; everything has its own identity somehow held together in a flexible structure which lacks overall totality and encourages change, be it neon or motorway.

For the newcomer it is universally overshadowed by "a mind-boggling ugliness; a city with almost nothing of beauty to show for its nearly 400 years of history... a vast urban complex without even the embryo of a plan", and Popham justifies it as an amazing, optimistic, flawless machine which works perfectly. This may well be so, but most gaijin (non-Japanese) must struggle hard to see it — possibly catching a glimpse in the efficiency of the public transport system or the camaraderie of the business outing. The Westerner is certainly advised to bury any assumptions of "superiority" and had better rather go as

learner than teacher. If there is a criticism of this very readable book, it may be that one doesn't feel strongly enough that juxtaposition of Western consumer images with Japanese lifestyle which is so disconcerting to the visitor. They say that the older generation works in order to be able to work, while the younger generation works in order to be able to enjoy itself; between the precocious young and incomprehending old, stretches the bond of a common language which retains a stranglehold on the status quo, its rigid conventions of address and mutually exclusive forms of professional jargon still acting as bulwarks of conservatism.

And the ever-present promise of change coupled with the earnest enthusiasm of the young in Tokyo is a theme which the book does not fully explore — perhaps the subject is too fluid. Yet what will happen if there is no earthquake? The young are growing up quickly in an energetic atmosphere steeped in Western ideas and the thrill of life on the Pacific rim. In their busy ordered lives, who knows what picture is emerging of the real

West? — it is certainly a powerful one which will affect our collective future. And now they have begun to talk of "conservation", "leisure", and even "unemployment". Finally, the book is about Tokyo and not about comparisons of Tokyo with the provincial centres of Japan (Kyoto is not mentioned very much, Osaka scarcely at all). The architects in the text are mainly well-established figures — Kurakawa, Isozaki, Tange, Maki — in preference to newer names like Nakamatsu, Ando or Team Zoo, and this is not a highly specialist book. It is recommended reading for anyone interested in this vastly important centre, and it urges one to visit. Unless you're scared of earthquakes.

Living in the city

By John McKean

People in Cities, by Edward Kupa (Cambridge University Press). £27.50 hardback, £8.95 paperback.

OUR post-urban society might be characterised as one in which all decisions are made, all ideas circulated, between those who live in the straining suburban miles of the metropolis where they work at a desperately tedious distance from remnants of countryside, village, or town. It is all equally far from the "city" as it used to be known — and could be described as an essentially urban place, the focus of civilised life, whose built form could be transversed.

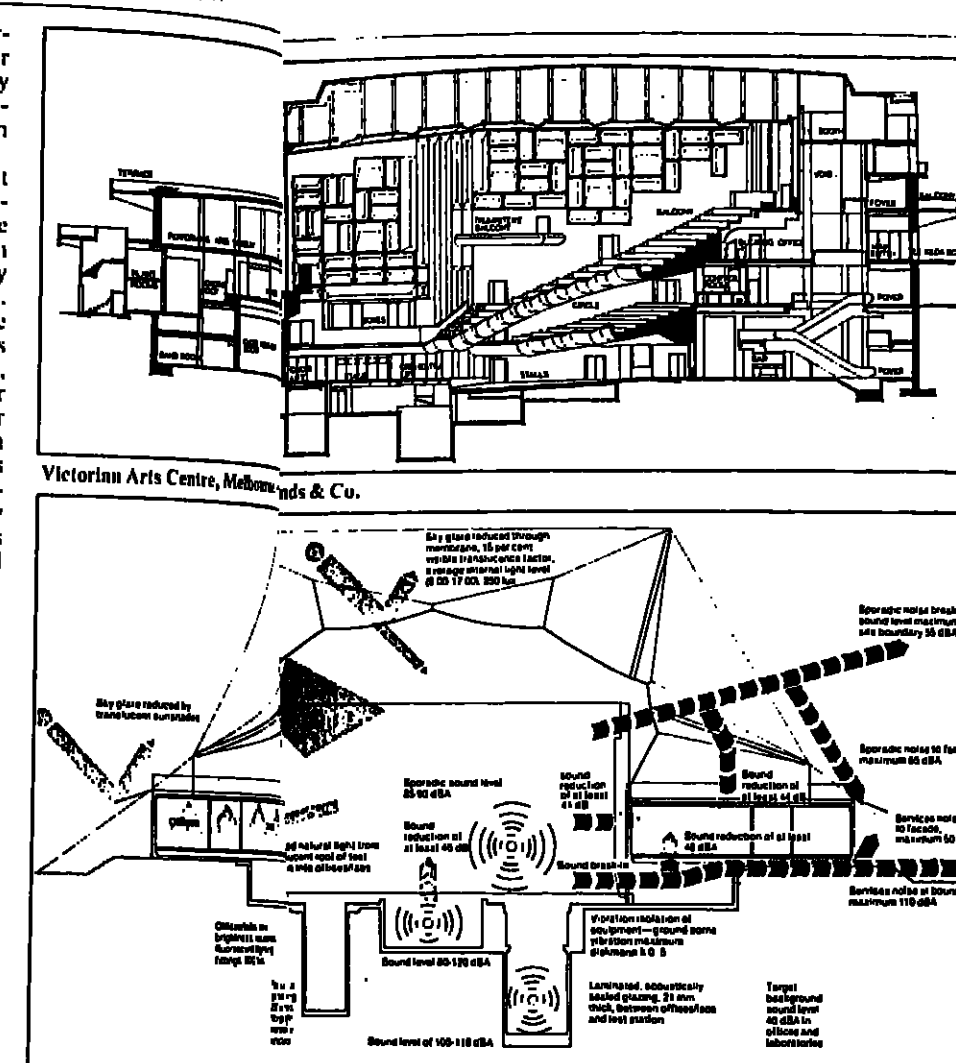
One essential of this post-urban society has been its fixation by a caricature of masculine values, characterised (for our purposes here) in the goals of order, discipline and control, of clarity and atomisation; in detached, spuriously "goal-free" analysis, of a particularly "scientific" form of logical justification, and especially the ideology of behaviourism as an anchor of unquestioned values.

Meanwhile, the level of debate drains away. Look at the resurgence of Oscar Newmanism, and the superficiality and reductively arid debates around Alice Coleman in both the general and professional press. Feelings and images, the qualities of life for reflective individuals with memories, the possibility of culture in convivial urban communities, are all demeaned and diminished.

Fittingly, into this sludge there now splashes this book, whose title on the cover reads in full: *Environment and Behaviour Series: People in Cities: The Urban Environment and Its Effects*, by Edward Kupa of Massachusetts College of Pharmacy & Allied Health Sciences, and published by the uniquely prestigious and ancient Cambridge University Press.

It must be said at once that it is not a book of much use to students of architecture or urban design and planning. It is not a book of much value to anyone with a serious concern for the city's values.

Here is a book without a single new idea, and that I presume is the intention. It is a shiny and undirected gloss around recent (largely 60s and



Michael Hopkins Schindler Associates, Cambridge, lighting and acoustics.

early 70s) "scientific" observations of our human ants in our urban anthill. The author simply and modestly salutes around the references listed in the 19 pages of almost exclusively male bibliography, weaving round this theory and that without disturbing their due too much with thoughts. Mostly he enjoys environmental psychology, cognitive maps, models and variables and, yes, there's even the obligatory couple of pages on Calhoun's rats.

The first half of the book is called "The Idea of the City". His massive reading does include Rykwert's *The Idea of a Town*, Krier's *Urban Space*, Anderson's *On Streets* (to take catholic examples); nor does he like Raymond Williams' *The Country and the City* or anything by Richard Sennett.

The second half is called "Living in the City". Here Oscar Newman "has met with great critical acclaim and massive criticism, both of which he deserves". (But why, Mr Kupa?) He ends with three principles of urban design. One: No design can simultaneously maximise satisfaction of all basic needs. Two: the relative importance of needs is not fixed. Three: whereas needs are universal, the means for satisfying them are not.

Krupat has boned up on all that environment-behaviour research, but taught us nothing new!

Quiet theme lingers

By John McKean

Mortality and Architecture, by Martin Valatin (for Architects for Peace and National Architecture Student Association 95p).

THIS is a slim, dark pamphlet whose quiet theme lingers

long after it has been put down. Its message is no less urgent for its being put so unhysterically.

Inevitably, most discussion about the military involves preaching to the converted. So I expected a catalogue of obscenities at which I could share the rage: over half of all scientists in the public sector work in the war ministry; the Trident programme is costing £30,000 a day for a 1,000 years; and so on. The more directly architectural catalogue describes how the Property Services Agency spends over £1 million a year simply maintaining one wartime seat of government deep in Wiltshire mines; in an area of housing shortage, £5½ million is being spent on "an authentic German village" just for military target practice.

But actually what this booklet centres on is something different: it concerns how fear, subliminally felt or deeply repressed as it may be, stifles and paralyses creativity — in our case, architectural creativity.

In *Armageddon and the anxious mind*, psychiatrist Jeremy Holmes puts it clearly: "The biological response to flight is fight or flight. There are two situations in which we can neither run away nor fight and win. The first is when the threat is internal: that is the problem for neurotics. The second is when the threat is all-pervasive. This is the case — at least in the northern hemisphere — with nuclear weapons. The threat can be dealt with initially by projection. This works for a while but not for ever. Eventually the repressed aggression returns, becomes a persecutor, incapacitates."

In *Mortality and Architecture* Valatin quotes Kenneth Clark: "It is lack of confidence which kills civilisation," and suggests a link not only with the difficulty of building with confidence in today's world, but also with current crises in architectural expression. This deserves thoughtful analysis.

There is, however, another whole subject not mentioned in *Mortality and Architecture*. That centres on the phrase which it echoes: morality and architecture; that fraught link between ethic and aesthetic.

The core of an architect's

education and professional role is in the skill and awareness to make places which can be inhabited, the visualising, designing and fabricating of places for human action, joyful or sombre, exciting or calming, but each hopefully enriching and humane.

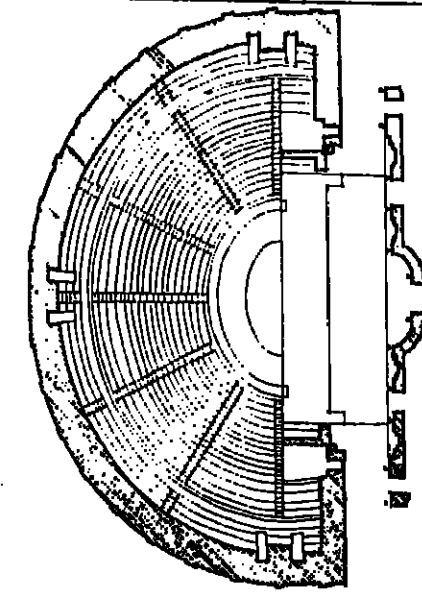
Now, what about the places made by the culture of nuclear warfare? Where is the place for human dignity in the earth holes for ostrich-heads of government round the country? What are the architects imagining as they design the doors to these tombs (whether those inside or outside are the more dead). What are their feelings as they plan a warren for civil servants deeply buried under Corsham? When they detail the door locks, the air-conditioning, the vast coffin store, when they take care over designing the quality of light, the spaces for social contact, for privacy, for any human action? Or again, as they take pleasure in planning and forming that most extravagant and foul of all new towns in England, the secret but vast one now renamed Sellafield?

Is the tragedy that somehow the reality is so painfully repressed, blinds are drawn down behind the eyes as designing begins? As Anouilh says, "tragedy is restful. Nothing is in doubt, and that makes for tranquility. There's a sort of fellow-feeling in a tragedy: he who kills is as innocent as he who gets killed... The reason is that hope, that foul, deceitful thing, has no part in it. There isn't any hope. You're trapped" (*In A Dark Time*).

As architects, we can start by defining our professional competence as the creation of hopeful places, and as a profession condemning anything else. We don't need to moralise about death versus life, theorise about the tension between the drives of Thanatos and Eros, and so on. As designers we can say our goal must be the aesthetic rather than the anesthetic. We still have time, as well as the professional duty, to open our eyes.

As this fine little pamphlet ends, quoting Louis Kahn: "Shadows belong to light". Every British taxpayer will this year pay £700 for the military; 95 pence for *Mortality and Architecture* is value.

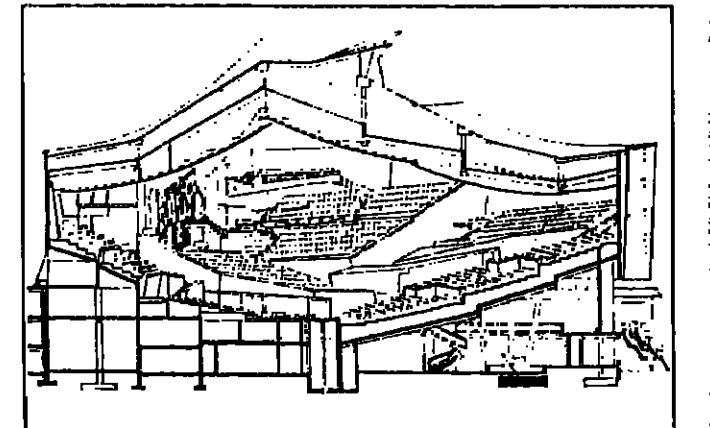
Books



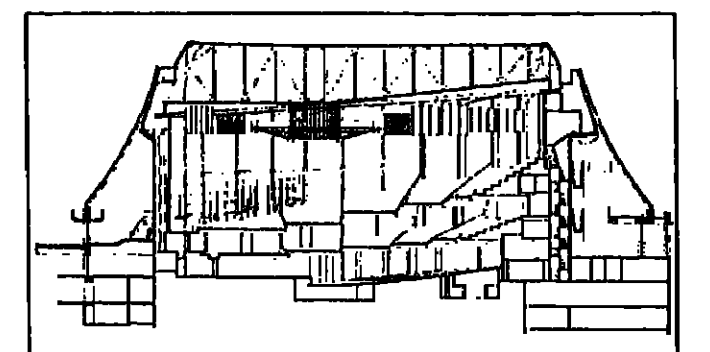
The Theatre of Herodes Atticus, Athens.

The art of noise

Peter Lord and Duncan Templeton, principals in Building Design Partnership's acoustics unit, have put together a practical and comprehensive guide to architectural acoustics with some 34 case studies from around the world. Despite costing £49.50, *The architecture of sound: Designing places of assembly* will provide a useful investment to offices involved in any building types where acoustics are a priority or problem.

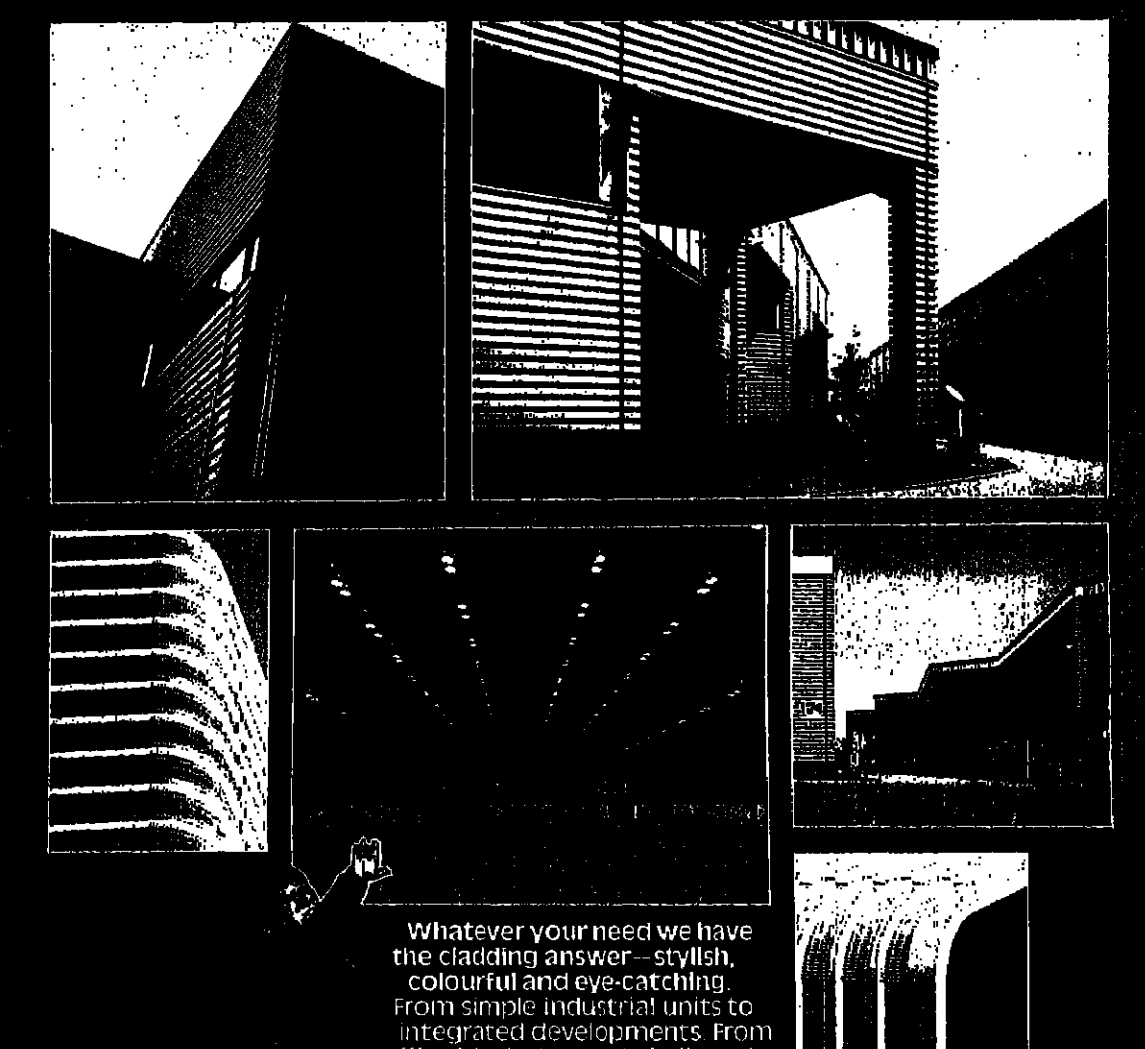


Hans Scharoun's Herin Philharmonic, section.



Ray Thomson Hall, Toronto, by Arthur Erickson/Mathers & Haldenby.

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New Products

Compiled by Harold Hudson

Waterproofing plan makes advances

BOOTH Engineering Services, the company which has the exclusive UK distribution rights for the US Volclay system of waterproofing, has announced that the BBA has awarded the system a certificate in compliance with the new Building Regulations.

Volclay is something quite special in the below-ground waterproofing world — a tanking medium which is not based on the application of brushed or spread waterproofing membranes. Instead, Volclay is a panel product made up of a core of naturally occurring minerals — sodium bentonite — between bio-degradable sheets. This is used to line the outside of the below-ground structure and once in contact with ground moisture the bentonite swells up to 15 times its dry volume. If the Volclay panels are restrained between the wall or floor of the basement and compacted backfill or sub-soil, its swelling is confined to form a viscous mastic which is impervious to water and water vapour.

The system also includes hydrobar tubes for pinning against junctions in otherwise watertight

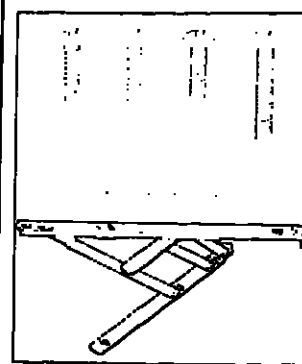
structures. Additional benefits of the Volclay products include ease of installation and the ability to install Volclay tanking in wet weather.

Booth reports that specifiers were cautious at first, but the system is now starting to catch on. The unfamiliarity of the system was sufficient to ensure a degree of caution but with the BBA certificate it is looking forward to increasing acceptance.

Harold Hudson

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Window screws

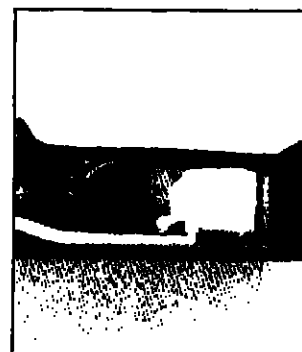


TO minimise problems with upvc windows when incorrect or poorly designed screws are used to fix the hinges, the Buildex division of ITW has introduced two new Tek's self-drilling fasteners. One has a Hi-Hi thread for use with pvc or metal reinforcement when up to 2mm thick. Where the reinforcement is thicker (up to 3.5mm) a new fastener with an M4 thread form is now available.

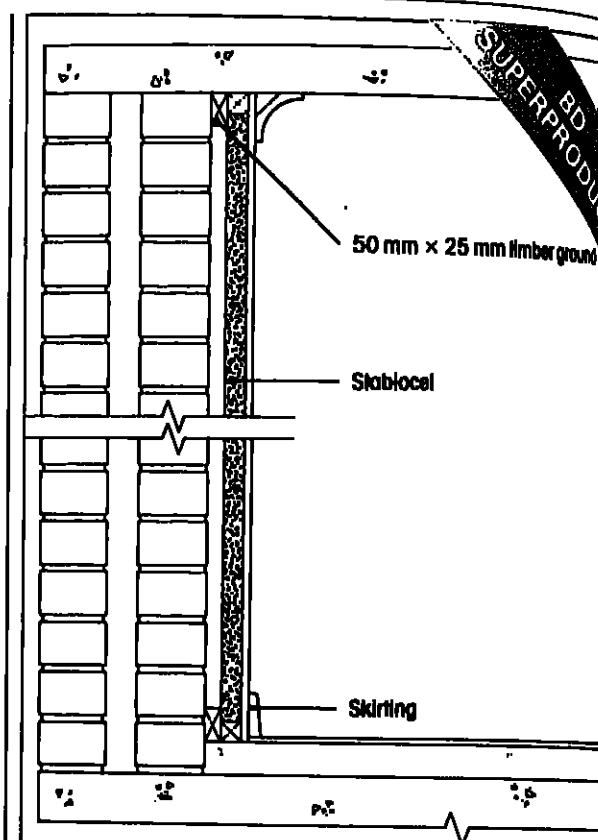
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Float valve

AT last there is a replacement for the ballcock, which had its origins in the last century. After three years of extensive testing, Keraflor has come up with a float valve which incorporates two ceramic discs. This device will give excellent performance for a long life. It has no sealings to wear and is maintenance-free. Other benefits include positive shut-off, no water hammer and fast and quiet filling.



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PHENOLIC INSULANT

VENCEL Resil has announced the introduction of Stablocel, a phenolic foam, multi-purpose thermal insulation board with virtually the same fire safety performance as non-combustible thermal insulants. In the event of fire, the phenolic foam degrades, but it only chars and smoulders with a low smoke emission. It has a class 0 internal fire spread and a class 1 surface spread of flame. The phenolic foam is integrally bonded to non-woven glass tissue facings and is supplied in thicknesses from 20 to 50mm and in 1,200mm wide lengths of

450, 600, 1,200, 2,400 and 2,438mm. Stablocel Insulated Dry Linings also available. This consists of a laminate of various thicknesses of Stablocel insulation to 9.5mm thick, ivory faced, tapered edge plasterboard. A vapour check can be provided between plasterboard and insulant.

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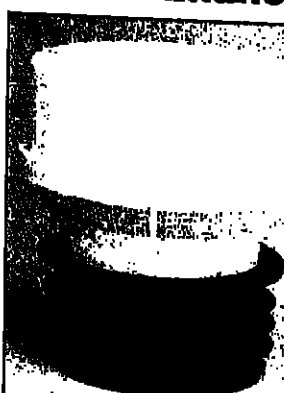
Ceramic tiles

CRISTAL's 86 collection from H & R Johnson includes a number of exciting new effects in ceramic wall tiles. One of these is Stripes — a bold diagonal design on a two-tone grey background. The stripes are in red or blue. Said to be subtle enough to be used on large spaces, the design possibilities it creates are legion. Both pattern and plain tiles are priced the same. The collection contains many new patterns in natural whites and greys, and the new fashion colour — peach.



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Air admittance

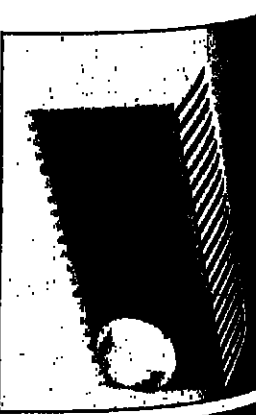


FOR use in domestic and commercial waste systems to prevent the syphoning of waste traps without the release of foul air, a new 40mm air-admittance valve — the Osmo Vent 40 — has been introduced by Wavin Building Products. Manufactured in ABS with an EPDM rubber diaphragm, the new valve is easy to install and push-fit over Osmo Vent or Osmo Bore 40mm wastepipes. It is corrosion resistant, maintenance free and has an insect guard.

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Light fitting

COMPLEMENTING its Linnea Halogen 300/300W fittings, C & R Lighting Systems has introduced the Sunset Dichroic lamp. For directional highlighting with a soft focus effect, the Sunset lamp carries its own integral transformer and has an aluminium housing. It is available in white, black, red and grey and can be adapted to a multi or single-track system. It also can be surface mounted.



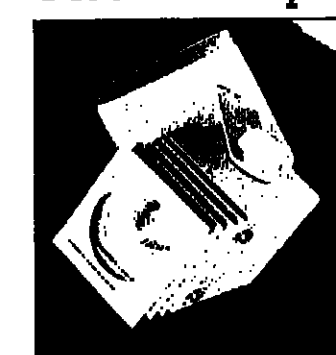
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Walkways

WHEREVER corrosion resistance is a problem, the Allgrid glass-fibre reinforced polyester industrial walkway units offer long life at low cost. Closed top or open grid versions are available in standard, heavy duty and fire retardant versions. Allgrid panels are 1,744mm x 914mm, they weigh 12.7kg per m² and are non-magnetic and non-conductive.

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Cordless display



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Plotter/printer

AVAILABLE in the UK from sole agents, Environmental Equipment (Northern), the new Graticon MS8603 Rastercoorder A3 size plotter/printer has a vast number of applications. It has a fixed thermal head and a mechanically driven pinch roller paper feed system for extremely quiet, high-speed operation in either plotter or printer mode. The head provides high-density plotting at eight dots per mm and at 10 times the speed of a conventional pen plotter.

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Grit storage



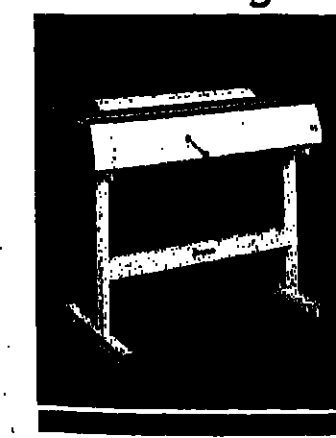
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Accent lighting

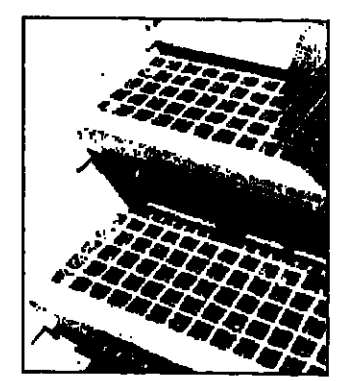
HIGH intensity accent lighting is provided by the Mickey-Mole range from Mole-Richardson. The MM 35 CT was originally developed as a miniature stage spotlight. It is capable of a cool beam of light with a lumen output equivalent to a 300W conventional reflector when used with a 90W low-voltage lamp. It can also be used with 20, 50 or 75W spot or flood lamps and comes complete with barn doors and optional long-life dichroic glass diffusion and colour filters.

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Plan folding



Enter 112 ON EXPRESS ENQUIRY CARD



Dining table

SEATING up to 16 people, the new oval-topped dining table from S Pollack is made from a mounted on lobster-pot-shaped wicker supports — a simulated cane wicker/rattan material that is said to be virtually indestructible. The table measures 3,300mm x 1,200mm and is available in various colours and patterns. Special requirements, such as the inclusion of logos, can be incorporated. There are matching dining chairs.

Enter 113 ON EXPRESS ENQUIRY CARD

Ventilation



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FLOORMASTER is a new style ventilation system introduced by Bahco Ventilation. It is based on a displacement air principle and depends on the delivery of fresh cool air at low velocities into the room at floor level, displacing the warm air upwards. Bahco maintains that Floormaster produces healthier conditions than the conventional mixing system of ventilation and that it is often cheaper to install because it requires less ductwork.

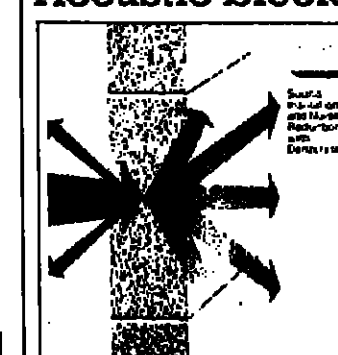
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Aerial thermography

GEORGE Wimpey has announced an economic and cost-effective aerial thermography service which can identify and pinpoint areas of energy waste. Mounted on a balloon platform, an infra-red scanner obliquely surveys both roofs and elevations of buildings below. Infra-red images are displayed on video screens in the ground vehicle. This service is an addition to Wimpey's well-established ground-based service. The equipment has no restriction.

Enter 115 ON EXPRESS ENQUIRY CARD

Acoustic block

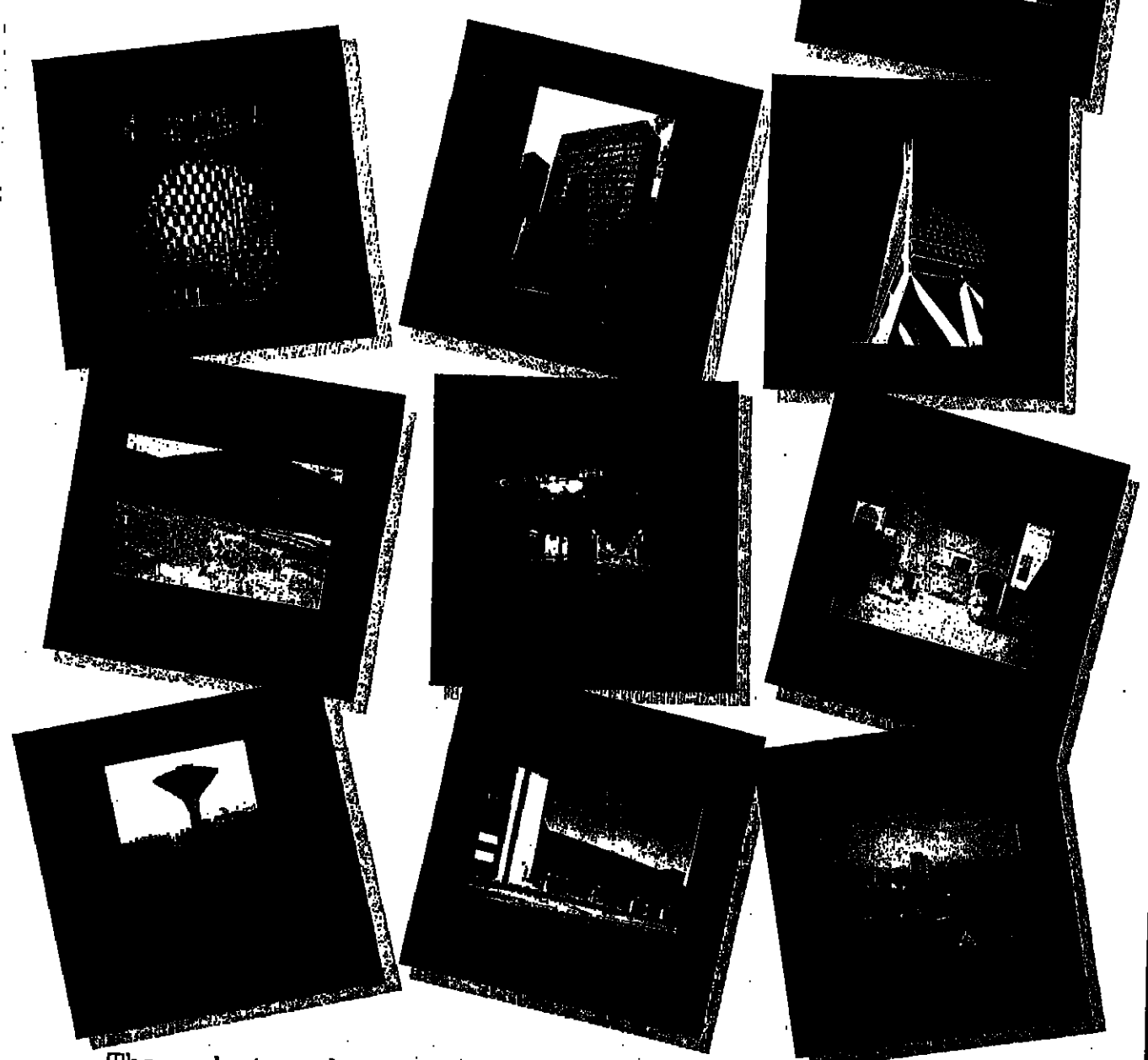


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DENZC RETE Standard blocks from HFC Quarries, including Close Textures and Fair Faced blocks, typically achieve a sound reduction index of 45dB for single leaf construction and 52dB for two leaf cavity wall construction. Their sound absorption coefficient is in excess of 15 per cent of total absorption at mean frequencies between 125 and 4000Hz, although plastering and painting can considerably lower these values.

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What do these have in common?



The sealant used was based on Morton-Thiokol LP Liquid Polysulphide Polymer. This has been the base for the production of high quality construction sealants for more than thirty years. It has also been the base for high quality Insulated Glass sealants for more than twenty years. The structures illustrated show successful contracts around the world, from near Arctic to tropical locations.

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For further information, contact us:
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Sir William Lyons Road,
Coventry CV4 7EZ
Telephone: 0203 416632
Telex: 311412 THICOV G
Fax: 0203 414748
A subsidiary of Morton Thiokol Inc.

New Products

Dining table

SEATING up to 16 people, the new oval-topped dining table from S Pollack is made from a mounted on lobster-pot-shaped wicker supports — a simulated cane wicker/rattan material that is said to be virtually indestructible. The table measures 3,300mm x 1,200mm and is available in various colours and patterns. Special requirements, such as the inclusion of logos, can be incorporated. There are matching dining chairs.

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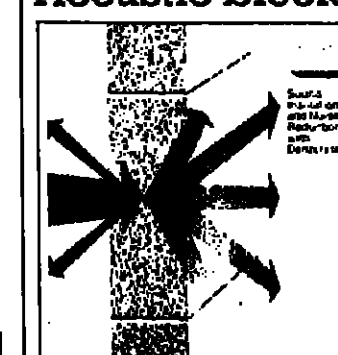
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Technical literature

Ice prevention

A NEW six-page brochure has been published by Raychem dealing with its self-regulating heating system which is capable of preventing ice forming on almost any type of roof. Known as IceStop, the heater is fitted to the lower courses of tiles, in the gutters and downpipes or in drains and gutters of flat roofs. It automatically adjusts heat output in response to changes in the ambient conditions.

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Roofing

A NEW brochure published by British Uralite gives the specifier a concise guide to its enlarged range of high-performance Nuraply built-up roofings. Benefits offered by the system include long life, low maintenance and cost effectiveness. AA fire rating without a surface covering, inherent UV reflectivity, discouragement of moss growth, good appearance, traditional laying, BBA certification and suitability of the AA capsheet for use in all flashing applications.

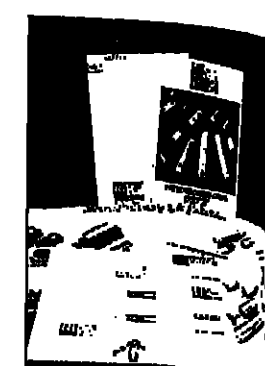
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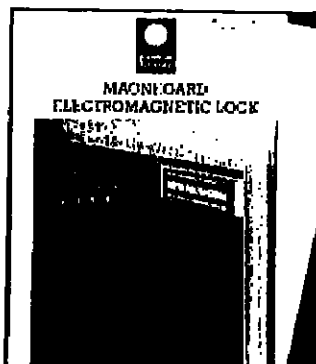
Wire grip

CCL Systems has published a new brochure dealing with its XL range of pre-tensioning grips for use on wire and strand in prestressed concrete. It contains all technical data concerning the XL cupless grip (which offers an economic alternative in certain circumstances to the enclosed grip), the XL open grip, the XL double-ended joint, plus cleaning and maintenance accessories. Details of stressing using the CCL Stressmatic jack are also included.

Enter 121 ON EXPRESS ENQUIRY CARD



Electric locks



WARSHAW Security has published a full-colour brochure dealing with its Magnegard electromagnetic locks. These locks accept 12 or 24V dc input, have no moving parts and are claimed to be 100 per cent fail safe. A locking force of 1,500lbs is induced when the current is applied. Magnegard locks are supplied as single or double units, with or without monitoring. Warsaw says that it can supply an electromagnetic lock for little more than £200.

Enter 118 ON EXPRESS ENQUIRY CARD

Theatre equipment



CROWN House Furze has published a new full-colour catalogue dealing with its range of theatre equipment, including curtains, suspensions, pulleys, drama and studio packs, stage rosters and furnishings. New items featured in the catalogue are a curtain track system which allows almost total freedom in stage design without the need for an elaborate support structure and a new range of floodlights, spotlights and electronic dimmers.

Enter 120 ON EXPRESS ENQUIRY CARD

Glulam calculator



GIVEN the load which it is expected to carry, the size of an appropriate laminated timber beam can be assessed quickly by the Swedspan Estimator. This device is available free of charge from Swedspan and contains a list of Glulam sizes which are normally held in stock by Swedspan associates throughout the country, as well as other standard sizes which can be obtained to order.

Enter 122 ON EXPRESS ENQUIRY CARD

Timber columns

TWO new leaflets have been published by Swedspan dealing with its range of Comwood laminated timber columns. These 12-sided Glulam columns have innumerable applications in locations as diverse as hotel foyers, leisure centres, churches, retail stores and larger homes. These components are becoming increasingly popular because of their good looks, durability and ease of use.

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Roof manual



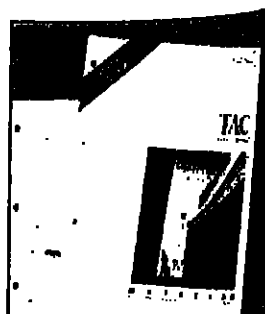
DYNAMIT Nobel has published a new edition of its 48-page Application Manual for its Total single-layer pvc roofing. Updated to include recent developments and the latest installation methods, the manual is packed with useful information presented in an attractive, workmanlike manner. It is a comprehensive reference for designer and roofer alike, covering design considerations, laying techniques, care and maintenance issues.

Enter 124 ON EXPRESS ENQUIRY CARD

Cladding

TAC Metal Forming has updated its Melacled technical brochure covering roofing, cladding and decking products. One of the new features of the brochure is the inclusion of model specification clauses. Technical data covers materials and finishes, maximum spans, characteristics of linings, curved sheeting and flashings, on-site handling and fixing of the products.

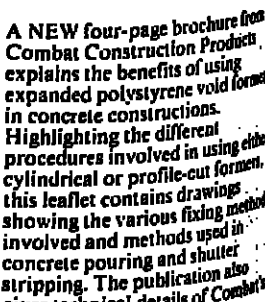
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Void formers

Combat Void Formers explains the benefits of using expanded polystyrene void formers in concrete constructions. Highlighting the different procedures involved in using either cylindrical or profile-cut formers, this leaflet contains drawings showing the various fixing methods involved and methods used in concrete pouring and shutter stripping. The publication also gives technical details of Combat formers.

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This Week's Advertisers

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The enquiry card opposite is a simple easy way to obtain information on manufacturers' products or literature in this issue. Postage is FREE and we pass your enquiry on to the manufacturer within 24 hours of receiving it. The number of enquiries and the quality are a barometer for advertisers to gauge how Building Design performs for them. So make sure that any product or service you need information on you use this card.

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BUILDING COMMUNITIES

THE FIRST INTERNATIONAL CONFERENCE ON COMMUNITY ARCHITECTURE, PLANNING AND DESIGN

LONDON, 27-28 NOVEMBER 1986

Conference Chairman: The Lord Scarman OBE.
Keynote Speaker: HRH The Prince of Wales. KGKTGCB.

"The fundamental point to stress is the urgent need for partnership between the public and private sector, between local politicians, community groups and non-public sources of finance. To restore hope we must have a vision and a source of inspiration. We must sink our differences and cut great swathes through the cat's cradle of red tape which chokes this country from end to end."

HRH The Prince of Wales, 13 June 1986

Building Communities will focus on how people can be better involved in creating and managing the environments in which they live, work and play. It will bring together for the first time all those who hold the keys to the regeneration of local communities: the public, private and voluntary sectors; commerce and industry; professionals and community groups; politicians and the Churches. It will provide a unique forum for information exchange, debate and the development of programmes for action.

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London Conferences Ltd, 15 Bladon Close, Lutworth, Wareham, Dorset. BH20 5PX. Telephone: West Lutworth (092941) 626
Information for potential sponsors, exhibitors and supporting organisations:
Community Architecture Information Service (CAIS) Ltd, 5 Dryden Street, Covent Garden, London WC2E 9NW
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APPROVEMENTS

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ASSISTANTS TECHNICIANS**

required to work on interesting and rewarding projects.
Positions available in London and at the Walton on Thames
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Applicants must have a minimum of 8 years office experience
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Our policy of providing a high quality
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and variety of new projects.

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city centre offices, listed building
refurbishments, retail, leisure, residential
and industrial developments we
continue to expand and are currently in
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levels.

If you would like to be part of our
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where appropriate being rewarded for
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with 2+ years experience, urgently required for 1-24 month
contracts. £7-£10 per hour. Immediate start.
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Grosvenor Gardens House, 35-37 Grosvenor Gardens
Victoria SW1

HUDDERSFIELD POLYTECHNIC
Dept of Architecture, Design & Construction
**PRINCIPAL LECTURER IN SCHOOL OF
CONSTRUCTION STUDIES** Ref: ACAS46C

Applications are invited from persons who would wish to lead a
group of staff teaching in the field of Construction Studies. We will
with the successful candidate to show initiative, particularly in the
field of building technology, in order to enhance the present
Higher National Diploma Course designed to educate Architectural
Technicians and in the development of research and new courses.

Applicants should have an appropriate graduate qualification,
teaching and professional experience and an ongoing
commitment to research. A higher degree and/or knowledge and
experience in the use of computers would be an advantage.

Further details and application form (please send SAE) from the
Personnel Office, The Polytechnic, Queensgate, Huddersfield
HD1 3DH and should be returned to that office by 14 November
1986.

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Hyperbole: a rhetorical figure which produces a vivid impression
by extravagant and obvious exaggeration. See also HYPE: a sales
gimmick etc: a publicity stunt: a deception.

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We require self-motivated
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**ARCHITECTS
AND
ARCHITECTURAL
TECHNICIANS**

We offer competitive salaries, a challenging and
varied workload with good career prospects.
Please reply to R L Bead, Partnership Secretary

**DIRECTORATE OF TECHNICAL
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ARCHITECTURE GROUP**

We are looking for talented and enthusiastic staff, with a
commitment to public sector practice, to strengthen our
busy Architecture Group. You will join established teams
handling an interesting range of projects at all work stages,
including major new-build schemes currently in design.

Senior Architect
Ref. 604/508
SALARY: - Grade PO1/2 £12,690 to £14,391
per annum inclusive. Plus Essential User Car
Allowance.

An ambitious and energetic architect with at least 2 years
post-qualification experience and proven design and
contract administration ability is needed. You will take
responsibility for major schemes and will make a positive
contribution to the effective management of a team of up to
7 staff in assisting a Section Architect.

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ASSISTANT**

Ref. 188/511045/BD
Career up to £14,289

The Architects Department is looking for an enthusiastic
technician/assistant or architect to carry out a wide range of
projects, which include both refurbishment and new build
housing, extensions to social services buildings, depots and leisure
facilities, a large programme of decentralised neighbourhood
offices and environmental improvement work.

The Council is decentralising its services and all offers of
appointments are made on the understanding that job location,
duties and responsibilities are liable to change.

Applications for the above post are invited from qualified and
experienced persons. Application forms and job descriptions may
be obtained from the Personnel Reception, Town Hall, Patriot
Square, London E9 9LN, or telephone our answering service on 01-
981 0077.

Please quote the Job title and reference. Completed forms must be
returned by 10.11.86.

Applications are considered on their suitability for the post
regardless of sex, sexual orientation, religion, racial origin,
marital status, disablement or age.

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with design ability and
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at all levels of experience to work in their Marble Arch & Slough
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Please write with CV. In first instance to:-
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Slough
Berks SL1 1XQ

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Immediate starts for Techns, Assistants, Housing Estate layouts,
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For further details on Permanent Vacancies please contact: MIKE
SHAHEEN, and for Temp. vacancies: JOHN GRAHAM.

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334 Euston Road, London NW1 3BG
Tel: 01-387 1043 Fax: 387 8312

PERCY THOMAS PARTNERSHIP

require an architect in their Bristol office to join an
enthusiastic team carrying out a wide variety of projects.
Applicants should have been qualified for about five
years, should have a mastery of building construction
technology, a sensitivity to design, and strong
management skills. Site supervision experience
advantageous.

Please apply in writing, with C.V. to:-
Mrs S Morgan
Percy Thomas Partnership
11 Whiteladies Road
BRISTOL BS8 1AX
(0272 730316)

Architectural Assistants

Professional & Technical Officers
£8,785 to £11,234 (including Inner
London Weighting)

Technical Grade 1
£7,513 to £9,421 (including Inner
London Weighting)

The Property Services Department of the Metropolitan
Police Office has a number of vacancies in existing project
teams and is in the process of forming design teams for an
expanding workload.

The teams undertake the design and construction of new
courts, Police Stations, Offices, residential buildings,
laboratories, computer installations etc. In addition there
are vacancies in teams dealing with alteration and
extension work offering valuable site experience.

Successful candidates will be expected to make a positive
contribution to the work of the team and initiative is
encouraged.

The Office is recognised for training purposes and
encourages staff in all aspects of professional training
including day release.

Qualifications For PTO you need ONC/BTEC/
SCOTVEC(NC) or the equivalent or higher in the
appropriate subject plus practical experience.

For Technical Grade 1 you need a City & Guilds Advanced
Craft qualification and have served a recognised
apprenticeship, or passed at GCE 'O' level or CSE (Grade
1). Several years practical experience are also required.

Application forms and further details are available from the
Establishment Officer, Metropolitan Police Office, Room
219 (RSD/AA), 105 Regency Street, London SW1P 4AN or
telephone 01-230 5122 (24 hour answering service).

The Metropolitan Police Office is an equal opportunities
employer.

METROPOLITAN POLICE OFFICE

**GRAPHIC DESIGNER TO WORK
IN KUWAIT**

A talented graphic designer is required to prepare promotional literature
and other presentation material including the firm's professional record, job
summary sheets, display panels, standard forms, report graphics etc. The
graphic design would also be responsible for proper documentation,
storage and filing of artwork, photographs, slide library, models, display
material, etc. The selected candidate must not only be highly creative but
must also be able to work under pressure to meet normal target dates.
Salary - £11,000-£15,000 in addition to the standard expatriate package for
a bachelor or a couple with no children.

Please send detailed CV to:-
SSE Consultants Ltd
St. Georges Hill
St. Georges Hill
Bristol BS20 0PX

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**ARCHITECTS & SENIOR
TECHNICIANS**

of high ability urgently required by practice engaged on
interesting leisure projects throughout the UK. Freelance
and staff positions available.

Northern Building Design Associates
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Tel: 06225 876097

**CORBY DISTRICT
COUNCIL**
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**Architectural Technician/
Assistant**
£8391 - £10164

The main duties will involve the preparation of production
drawings for issue to Contractors, Quantity Surveyors,
Specialists, etc. Work will include housing, leisure centres and
industrial units.

Applicants must hold the intermediate qualification of the RIBA
or MBAT, or have HNC or HTEC in Building with post
qualification experience in a drawing office.

Rented housing accommodation may be available with
generous removal/settling in expenses paid in appropriate
cases.

For an informal discussion contact contact Keith Webster,
Planning and Design Officer on Corby (0538) 202561 Ext. 14.

Application forms and job descriptions are available from the
Manpower Services Section, Civic Centre, George Street,
Corby, Northants, NN17 1QB, or telephone Corby (0538)
202561 Ext. 0.
Closing date: 7th November 1986.

**CYNGOR SIR
GWYNEDD
COUNTY COUNCIL**
COUNTY ARCHITECT'S DEPARTMENT

The County Architect's Department is currently engaged upon
a wide and interesting programme of new building and
refurbishment work throughout the County and applications
are invited from talented, enthusiastic designers for the
following posts, one of which will be located in the
department's Dolgellau office and the other in the headquarters
building at Caernarfon. Applicants should state clearly on their
application form whether they have a preference for one or
other of the offices:

PRINCIPAL ARCHITECT
PO 34-37 £12,287-£13,280

Applicants must be registered with at least 5 years post
qualification experience, of proven design ability and with a
good track record in contract administration and site
supervision.

ARCHITECT
Scale £8,501/2 £9,513-£12,287

Applicants must be registered architects with at least 2 years
post qualification experience and must possess considerable
design ability.

Ability to communicate in Welsh desirable and in English
essential for both posts.

Car allowance and assisted purchase facilities available.
Financial assistance towards removal and resettlement
expenses in appropriate cases. Closing date: 3rd November,
1986.

Application forms and further particulars for the above posts
available from the County Personnel Officer, County
Offices, Caernarfon LL55 1RH, Tel (0288) 4121 ext 2078.

**Career Grades
Architects/
Architectural
Assistants**

Ref. 604/518, 522, 525.
SALARY: - Scale 5/8/501/2 £9,129 - £13,035
per annum inclusive Plus Casual User Car
Allowance.

Real opportunities for individual responsibility and career
advancement and available for experienced technical staff
who can demonstrate initiative, imagination and the ability
to meet time and cost targets.

The starting salary for these posts will depend on
experience and qualifications.

There is a possibility of day release for those on a
recognised course of study.

Closing date 7th November, 1986.

Application forms available from the Assistant Controller
(Support Services), Barnet House, 1285 High Road,
Whetstone, London N20 0EJ. Telephone 01 446 8511, ext.
4460 (ansaphone during office hours) or ext. 4465.

LONDON BOROUGH OF BARNET
AN AUTHORITY COMMITTED TO EQUAL OPPORTUNITIES

The Bell Slater Partnership
Architects and Interior Designers specialising in the
business and catering industries urgently require:

**SENIOR TECHNICIAN/
TECHNICIAN**

capable of working with minimum supervision on
presentation drawings, working drawings and site
supervision.

Applicants should have at least seven years practical
experience, a sense of humour and an understanding of the
problems of a small but expanding practice with an
unreasonable workload - previous experience in
bobbing, weaving and juggling essential.

SALARY NEGOTIABLE
Please phone June Manning - 785 3030 - for interview.

**Directorate of Works
Chief Architect's Division**

**Principal Assistant
Architect**
£13,354-£16,143

**Senior Assistant
Architect**
£10,654-£13,279

Assistant Architect
£7,288-£10,654

**Architectural
Assistant**
£5,712-£8,113

The Welsh Health Common Services Authority is a
special Health Authority whose responsibilities include
the design and supervision of building and engineering
schemes for the Health Service in Wales.

This is a lively and progressive award-winning office
which is committed to high quality design and
construction. A GDS computer drafting system is used
extensively and the successful applicants will be
expected to make use of the facility and contribute
towards its future expansion.

The Department has its own Interior Design team,
Landscape Architect, and Land Surveyors. The
Directorate incorporates Services Engineering and
Quantity Surveying Divisions, thus providing a full
multi-disciplinary service with the exception of
structural engineering.

Vacancies have now arisen for the above posts and
applications are invited from suitably qualified designers
who feel they could make a positive contribution to the
further advancement of architecture in the office.

Principal Assistant Architect
A Registered Architect with a number of years
experience in design, site supervision and contract
administration, capable of taking a leading role in the
supervision and direction of staff under their control.

Senior Assistant Architect:
A Registered Architect with considerable experience in
design, site supervision and contract administration
since qualifying, able to run projects with limited
supervision, and be willing to work in a team on larger
projects.

Assistant Architect:
A Registered Architect with a sound technical
background, and some practical site experience since
qualifying.

Architectural Assistant:
A young assistant studying for the RIBA Part III
examinations with a good degree in Architecture and
interested in a career in a progressive Health Authority
office.

For an application form and further particulars please
apply to:

The Personnel Office,
Welsh Health Common Services Authority,
36/43, Newport Road,
Cardiff CF2 1BB
Telephone: Cardiff 499921 ext. 2138

Closing date for receipt of completed application forms is:
7/11/86.

**Welsh Health
Common
Services Authority**

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The Professionals choose us for choice

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QUALIFIED TECHNICIANS
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Surveyor's Section

JUNIOR ARCHITECTURAL TECHNICIAN
Scale £4,731-£8,179 per annum

The successful candidate will assist the Senior Architectural
Technician in the production of draft and final detail plans for
capital housing and other Council building projects.

Applicants should possess T.E.C. in Building Construction and have
up to two years' relevant experience.

For application form and job description please contact the
Personnel Officer, Monmouth District Council, Mamhilad House,
Mamhilad Park Estate, Pontypool, Gwent NP4 0YL.
Telephone: Pontypool 8311, Extension 229.
Closing date: 31st October 1986.

R.K. FRANCES ASSOCIATES
BRADFORD, EXETER, STUDLEY, WORTHING

SENIOR ARCHITECT

We require a self-motivated Architect with at least 10 years post graduate
experience to take control of our busy Midlands office at Studley. The office
has the advantage of a rural location just south of Birmingham whilst still being
within minutes of the City Centre.

The successful applicant will have good design ability and be well
experienced in the design of imaginative housing schemes for the public and
private sector, he will also have a sound knowledge of associated legislation
and standards.

The position requires sound managerial experience and skills, and the ability
to take over a tightly administered and commercially minded office from the
present holder of the post who has been promoted within the company.

A company car will be provided. Application with CV to:-
A.C. FRANKLIN ARLA,
R.K. Frances Associates,
4 Farncombe Road, Worthing,
West Sussex BN11 3BE.

County Planning Department

Architect
Design and Conservation

Salary: - S.O.2 (£11,604-£12,297)

An architect is required to assist the Senior Architect in
the Design and Conservation Team. He/she would give
advice to District Councils on design matters, historic
buildings, conservation areas and carry out design
studies for County Council owned sites.

Applicants must be Chartered Architects who are
interested in historic buildings and conservation, are
capable of solving design problems quickly and
imaginatively, and have the confidence and sensitivity to
provide practical advice to others. Precise experience in
a Planning Department of a local authority is desirable.
An essential car user allowance, relocation and
resettlement expenses will be payable in appropriate
circumstances.

For further details please contact Michael Abbott on
Chichester 777608. Application forms and a job
description are available from: The County Planning
Officer, West Sussex County Council, Sussex House,
Crane Street, Chichester PO19 1RL.
The closing date is 12th November, 1986.

west sussex

**ARCHITECTS • ASSISTANTS • TECHNICIANS
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For Permanent or contract positions in London and
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Immediate well paid positions.
Please Visit, send CV or phone:
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NOTTING HILL HOUSING TRUST
ARCHITECTURAL ASSISTANT/TECHNICIAN
to join busy Architects Department. Applicants should have experience in
and living for rehabilitation, design, supervision and cost control. Car
driver/owner essential.
Salary scale £10,540-£19,841
For further details and application form contact Jenny White, Notting Hill
Housing Trust, 36 Paddenswick Road, London W6 0US. Tel: 01-741 1570.
Notting Hill Housing Trust is working towards becoming an equal
opportunities employer and welcome applicants of all sexes, irrespective
of race, age, marital status or disability.
Closing date: 7th November 1986

ELM BRIDGE

SENIOR ARCHITECT
Up to £13,593 per annum (inclusive PO 34-37)
Plus essential user car allowance
Plus general relocation package including mortgage subsidy
allowance (where applicable)
Plus flexi time

The successful applicant will be required to work to the highest
professional standards on a full programme of new build and
modernisation work. This will involve: attending briefing
meetings, site meetings, supervision of Clerk of Works, liaison
with consultants and execution of working drawings etc.
If you are experienced in the above and are a Member of the Royal
Institute of British Architects we would be pleased to hear from
you.

For an informal discussion contact Mr R. Barnard, Head of
Architecture and Estate Services on Esmer 62111.

For an application form and further details contact the Personnel
Section, Elmbridge Borough Council, Town Hall, New Zealand
Avenue, Walton on the Hill, Surrey. Tel: Walton on Thames
228844 ext 232 (answerphone service).
Closing date: 7th November 1986.



SHEPWAY DISTRICT COUNCIL Controller of Technical and Planning Services Architects Section

Shepway offers a very pleasant coastal and rural
environment for both living and working in. The
Council currently requires the following permanent
staff to join the very busy Architects Division (which
presently numbers thirty-four staff) of the Controller of
Technical and Planning Services Department. The
successful applicants will work on new rehabilitation
housing schemes and other corporate projects
including a major extension to the Civic Centre.

Principal Architect

Scale PO6 (£13,653 - £14,862)

Applicants are invited from Registered Architects for
this key position which will involve assisting in the day
to day management of the Architects Section
(containing 16 professional staff), reporting directly to
the Chief Architect.

Applicants should have several years experience of
design and contractual matters, be highly motivated
and able to demonstrate creative achievement as well
as interpersonal and programme management skills.
Whilst previous local authority experience is considered
desirable it is not essential.

There is a continuing need to improve office systems
and methods and to this end computer facilities and
CAD are being developed. The successful applicant will
be expected to contribute to this development as well as
designing and running specific projects.

An essential car user allowance or a lease car will be
available, together with relocation expenses where
appropriate.

If you wish to informally discuss the above post please
ring the Council's Chief Architect Richard McCarthy
DIP ARCH RIBA on Folkestone 57388 Ext 473.

Architectural Technicians

2 Permanent Posts
1 Temporary (subject to review) minimum
period of 12 months
Scale 4/5 (£7,311 - £9,216)

The above vacancies exist within the very busy
Architect's Section for experienced staff to work on a
variety of schemes producing working drawings and
production information. Applicants will have to
demonstrate a high degree of commitment and the
ability to work with a minimum of supervision.

It will be an advantage for the post holders to provide a
car for which a Casual Car Allowance will be paid.
Relocation expenses in approved cases may also be
available.

Application forms and job descriptions for the above
posts may be obtained from the Personnel Officer,
Shepway District Council, Civic Centre, Castle Hill
Avenue, Folkestone, Kent. Tel: (0303) 57388 Ext 210.
Closing date: Friday 7th November 1986.

stirling

RECRUITMENT CONSULTANTS

ARCHITECTS
4-5 yrs exp to work on independent housing projects.
Arch/Surveyor to take responsibility for running housing schemes, work on site
involved for this Surrey based co.
INTERIOR DESIGNERS
Consultancy in Bedfordshire require retail designer with 3 yrs + exp and a flair for
architecture to run a variety of projects.
Retail/Exhibition designer for Leicester based design consultancy.
ARCHITECTURAL ASSISTANTS - qualified to RIBA 1 to work on offsite and
high tech schemes, planning, appraisals, scheme drawings and specifications
ARCHITECTURAL TECHNICIANS - with sound housing experience for co. in
Herts - min 3 yrs exp with proven commercial background
DESIGN DRAUGHTSPERSON - shopping exp and knowledge of building
regulations required for co. in Wilt.
CONTRACT TECHNICAL DRAWING - up to £18,000 p.a. for immediate start.
8A New Street, Basingstoke, Hants (GU24) 47878

ARCHITECTURAL TECHNICIAN

required for varied and interesting work in the Architectural Department.
Salary will reflect experience and ability.

Contact:
Tony Drex RIBA MRPI
George Trollope & Sons
13 Hobart Place, London SW1
Telephone 01-235 8099

WANTED

CAREER MINDED ARCHITECTS AND TECHNICIANS

Worthwhile wide-ranging opportunities in general practice for dedicated
people who want responsibility.

Good staff benefits.
Apply with CV to:
C. J. Baxter
Clark Baxter Associates
9-11 High Beech Road
Loughton (Central Line)
Essex

DEPARTMENT OF PLANNING AND ARCHITECTURE

SENIOR ARCHITECT

Grade S02/PO1a (£11,604-£12,894)

Applications are invited for the above post based in modern office
accommodation at Hanley. The post holder will head a team
responsible for the preparation of sketch schemes and working
drawings, supervision on site and liaison with contractors and sub-
contractors for the City Council's New Housing Programme. This is
an important post in a progressive authority committed to
improving its housing stock and leisure facilities.

Applicants should have a wide experience in the design of local
authority housing developments and must be registered Architects
with preferably 5 years' post qualification experience. Salary on
appointment, within the above grade, will be dependent upon
qualifications and experience.

Conditions of service are excellent and include a 37 hour flexible
working week, car mileage allowance and facilities for assisted car
purchase. Reasonably priced housing is available in attractive rural
surroundings within easy travelling distance of the administrative
centre. A whole range of financial aids in respect of relocation
expenses, etc., is available, full details of which will accompany
application forms.

For further information/Informal discussion, please contact Mr S C
Prior, Deputy Director of Planning and Architecture on (0782)
404103. Application forms available from the Chief Personnel
Officer, Town Hall, Stoke-on-Trent ST4 1HH or telephone (0782)
404745.

The City Council operates a Union Membership Agreement.
Closing date: 7th November 1986.



S. W. TITCHENER
Town Clerk and Chief
Executive Officer
This Council is an Equal
Opportunities Employer

BOROUGH ARCHITECTS DEPARTMENT

Architectural Assistants/Technicians

Grade S4/5 £8,049 to £9,954 inclusive

Applications are invited from Architectural Assistants/
Technicians who have a good understanding of building design
and construction with at least five years relevant experience. We
are looking for applicants who have completed Part 1 RIBA
(intermediate) or are members of BIAT or hold other equivalent
qualifications.

The posts are on the permanent establishment and super-
annuable and appointment may be made at any point on the scale
according to qualifications and experience. There is generous
annual leave entitlement plus one day off per month. (Option Day
Scheme).

The Council has in hand a varied selection of interesting schemes
which will give successful applicants an opportunity to gain
valuable experience in a busy office of a progressive Authority.
Previous applicants need not re-apply.

Application forms and further details from Alan H. Abilt,
FRIBA, Borough Architect, Town Hall, Barking, Essex IG11
7LU (Tel: 01-592 4500 Ext 3310) returnable by 10th
November 1986.

London Borough of BARKING and DAGENHAM

an equal opportunity employer

GLoucestershire BASED

with a widespread practice
We have vacancies for an

ARCHITECT

with some years experience in private practice and a post
graduate with marked design ability.
Please send CV to:-

Patrick Bailey
The Falconer Partnership
The Hill, Merrywalks, Stroud, Glos. GL8 4ER

THE KENNEDY WOODWARD PARTNERSHIP

Architects & Building Surveyors
urgently require young and enthusiastic

TECHNICIANS

to work on a variety of projects from small works to existing, large
new build projects.

Expanding offices in pleasant county town at Western
Successful applicants are likely to be 30-30 with H. Tec. (BIO)
BIAT qualifications or be suitably experienced. Salary negotiable.

Telephone for appointment or send C.V. to:-

R. C. Woodward RIBA
Hillwood
95 High Street
Westerham
Kent TN16 1RE
Tel: (0595) 69616

Leicestershire

DEPARTMENT OF PROPERTY

ARCHITECT (TEMPORARY APPOINTMENT)

£8,813 - £12,884 p.a.

A fully qualified Architect is required for a period not exceeding 9 months to
cover maternity leave.

Duties involve design and site supervision of public buildings, mainly schools
and liaison with Services Engineers and Quantity Surveyors.

Applicants should have several years experience preferably within a local
Authority environment and hold a current car driving licence.

The salary offered will be commensurate with qualifications and experience.
Application forms available from the Department of Property, County
Hall, Blenheim, Leicester LE3 8HE. Telephone Leicester 871313
ext. 7320.

Closing date: 14th November 1986.

EQUAL OPPORTUNITIES POLICY: Applications are welcome from people
regardless of their race, ethnic origin, religion, sex, marital status or disability.
Disabled applicants will be guaranteed an interview if suitably qualified and
experienced, and supported by a recognised agency eg. ARD.

UNIVERSITY COLLEGE LONDON

Architectural Assistant/Surveyor £9,000-£13,000 a.n.e. (Under Review)

Required to join small lively 'in house' design team handling
a varied programme of conversion and refurbishment
work in teaching, research and residential buildings.

Applicants should have experience in the preparation of
constructional drawings, specification writing and
supervising contracts up to £/m.

Apply in writing by 7 November 1986, to Mr John Rynell
RIBA, Bursar's Department, University College London,
Gower Street, London WC1E 6BT.

KIRKLEES METROPOLITAN COUNCIL

Directorate of Technical Services

ARCHITECTURAL STAFF

(A) SENIOR ARCHITECT

Grade: S.O.2. - £11,604-£12,897

(B) ARCHITECT

Grade: S.O.1. - £10,569-£11,871

(C) SENIOR TECHNICIAN

Grade: Scale 6 - £9,513-£10,164

(D) TECHNICIAN

Grade: Scale 4 - £7,311-£8,178

The Architectural Division of Technical Services is a busy multi-disciplinary
office dealing with a wide range of interesting projects including new build
modernisations, adaptations and refurbishment. The Directorate is located
in a pleasant modern town centre building and a flexible hours scheme is
operational.

Applicants are invited for post (A) from qualified architects of talent who
have the energy and commitment to see their own projects through all stages
from inception to completion on time and on cost.

Applicants for post (B) should be qualified architects who are seeking an
opportunity to widen their experience.

Applicants for post (C) should possess T.E.C. (Higher) certificate or
equivalent and must have extensive experience of building design and
construction practices together with a high standard of draughtsmanship.
The postholder will also be required to prepare specifications and supervise
work on site.

Applicants for post (D) should possess T.E.C. (Higher) certificate or
equivalent and must have a sound knowledge of building construction and a
high standard of draughtsmanship. Closing date: 4th November, 1986.

Application forms and Job Descriptions from the Personnel Office,
Directorate of Technical Services, PO Box 895, Civic Centre, Market Street,
Huddersfield, HD1 1NA. (Tel: Huddersfield 28133, Ext. 234) and are
returnable to the Director PCW Yane, RIBA, by Tuesday 4th Nov. '86.
The Council operates a Trade Union Membership Agreement.
An Equal Opportunity Employer.

Derrick Wade & Waters
urgently require

ARCHITECT & ARCHITECTURAL ASSISTANT/TECHNICIAN

to work in their Harlow office, on an expanding and varied
workload. Our multi disciplinary office is pleasantly located near
Harlow with good access to M11/M25.

Competitive salaries and conditions are offered including the
provision of a company car.

Apply in writing with C.V. to:-

CIP, Abbey RIBA,
Derrick Wade & Waters
The Old Bakery, High Wycombe
Harlow, Essex CM21 0HZ

TECHNICAL SERVICES DEPARTMENT

TEMPORARY SENIOR ARCHITECTURAL TECHNICIANS (Six Months)

£12,342-£13,035 inc. pa.

Required in the Architectural Services Division, two experienced
Technicians who have attained a high standard of draughts-
manship and a thorough understanding of construction detailing to
work within a small team carrying out interesting and
demanding projects.

For further information contact Mr Dyke (01-891 1411 ext 7393).
Application Form from Department of Technical Services, Regal
House, London Road, Twickenham TW1 3QB (01-891 7378)
quoting reference No. 918013/015. Returnable by 14th
November 1986.

LONDON BOROUGH OF RICHMOND UPON THAMES

(An equal opportunity employer)



CHIEF ARCHITECT

Abbey Homesteads (Developments) Limited, the housing
division of Abbey plc is seeking a Chief Architect to take
full control of a small in-house team and the management
of external consultants.

The division operates mainly in the south-east of England
and is currently expanding from 800 units per annum to
1000 plus.

The successful applicant will have developer experience
at senior level, particularly in the appraisal of potential
schemes and the design of new house types.

Excellent salary, executive motor car, large group benefits.
Preferred age range 30-45.

Apply with full career details to:
Chief Executive, Abbey plc
Star House, Mutton Lane
Potters Bar, Herts EN6 2QP

ARCHITECT

Mayfair W1

If you want to join a thriving and progressive
Company, where opportunities abound for fast
thinking people - think McCarthy & Stone.

We are the leaders in the provision of warden
assisted, private sheltered housing, and rapid
expansion has led to the opening of yet another
office. Our Mayfair address reflects our status in the
market and we are now seeking a qualified Architect to
set up a new department from scratch.

Probably in your late 20s, you will display good all
round ability and flair and be able to work quickly and
effectively under minimum supervision. Technical
skill in all aspects of commercial design and build
projects and an enthusiastic approach to your work
are essential.

We can offer excellent career opportunities as well
as an attractive benefits package including a
Company Car.



Building for a safe, secure retirement

Write or telephone for an application form:
Tony Hargrave, Manager, McCarthy & Stone
(Developments) Limited, 10 Mount Row, Mayfair,
London W1Y 5DA. Tel: 01-493 4701.

A Career Opportunity in Civil and Structural Engineering

Unilever Engineering is an international and multi-discipline
organisation with offices in London and Vlaardingen, Holland.
The Civil Engineering Section of the London office in Southwark
has a permanent staff vacancy for a Civil/Structural Engineer to
work on a wide range of industrial projects in UK and overseas.
Applicants will be Chartered Engineers in their mid-thirties and salary
will be commensurate with age and experience.

Please write for an application form and explanation of duties to:-

Personnel Services Manager,
Head Office Personnel Department,
Unilever UKCR Limited, Unilever House,
Blackfriars, London EC4P 4BQ.
Quoting reference JEP/1.



MONROSE BRISTOL
For your local branch of temporary
Architectural practice in Bristol
and the South West. Call us now
for an immediate interview.
Tel: 0272 297308
Royal London Building
42 Baldwin Street
Bristol BS1 1PW
Recruitment Consultants

ARCHITECT/ ARCHITECTURAL ASSISTANT

required immediately on freelance
contract basis.
Rosa Associates
01-383 4998 or
01-779 9130

ARCHITECT

with minimum of 4 years
experience required for
interesting projects.
Please send cv to:-
Powell-Tuck, Connor & Orefelt
Unit 10, Chelsea Wharf
15 Lots Road
London SW10 0QJ

Enthusiastic qualified

ARCHITECT

with 9-3 years experience required by busy practice in
Camden town.

The applicant should have design flair, a sound knowledge
of building construction and be capable of running medium
sized contracts with minimal supervision.

Please write with cv to: Rita Jarvis
ARP Anthony Richardson & Partners
31 Oval Road, London NW1 7EA
AN EQUAL OPPORTUNITIES EMPLOYER



Architects & Technicians

required at all levels to work on an expanding and varied
workload.

Please write with cv. to:
David Hall Associates Limited
The Mill, Lodge Lane, Darby DE1 3HB

Temporary Architects/ Assistants/ Technicians

REQUIRED IMMEDIATELY FOR DESIGN DEVELOPMENT
AND WORKING DRAWING PROGRAMMES ON VARIOUS
EXCITING PROJECTS IN THE BOROUGH.

Salary Range £9,129-£15,800 p.a.

plus usual excellent conditions of employment including paid
holidays, consideration given to part time employment. Our
offices are situated at Wood Green and Crouch End, London.
For further information/early interview ring 01-340 8031 (ret
HS) or leave recorded message 348 8849 after office hours.
Closing date 31st October 1986

Haringey

Haringey is an equal opportunity employer. We
welcome your application which will be
considered on merit, irrespective of race, marital
status, sex or any disability you may have.

ARCHITECTS

Sc 5/S02 £8,391-£12,897
(depending upon experience and qualifications)

SENIOR ARCHITECTURAL TECHNICIANS

Sc 5/6 £8,391-£10,164

ARCHITECTURAL TECHNICIANS

Sc 1/5 £3,186-£9,216
(depending upon experience and qualifications)

Will work in small teams engaged on housing, including new build
and major refurbishment schemes, or educational premises
including schools and colleges where new build, refurbishment
and re-modelling will be involved. The Architects Division has a
lively working environment, provides excellent experience in a
multi-disciplinary organisation, allows staff a high level of
responsibility and works closely with progressive client
departments, tenant associations and community organisations.

Applicants for the post of Architect should have passed RIBA Part 3
and have two years' post qualification experience.
Applicants for the post of Senior Technicians should be educated to
HNC level and hold membership of SAAT or an equivalent
professional body.

Applicants for the post of Technician should possess either an OTC
or HNC on a relevant subject or be studying for either.

For an informal talk, phone Tony Houghton, Chief Architect, on
0742 757928/736036.
APPLICATION FORMS AND FURTHER DETAILS FROM THE PERSONNEL
SECTION, DEPARTMENT OF DESIGN AND BUILDING SERVICES, PO BOX
941, CITY PLAZA, 2 PINFOLD STREET, SHEFFIELD S1 1SB, TEL 0742
736008/754112. CLOSING DATE 7th November.
We particularly welcome applications from women, black people
and people with disabilities for all our posts.

South East Thames Regional Health Authority

PROJECT MANAGER

(Capital Works)

Salary Scale: 27
£14,984 - £19,109

You will take responsibility for the detailed planning and
implementing of major capital works projects. While there may be
an advantage in having experience of health care service
provisions, the main criteria will be leadership and organisational
skills to ensure targets are achieved.

Informal enquiries about the post can be discussed with Mr E.M.
Davies Director of Capital and Estate Management - Telephone
Bexhill (0424) 222656 ext 3394.

Further information, job description and application form from the
Personnel Department, South East Thames Regional Health
Authority, Collington Avenue, Bexhill-on-sea, East Sussex TN23
3NQ. Tel (0424) 222656 ext 3145/3147.

Ref B183

Closing date 7th November 1986.



COLCHESTER BOROUGH COUNCIL

Property Services Department

ASSISTANT CHIEF ARCHITECT

Post No 42

Scale: Grade PO 6-9
(£13,653-£14,862)

Applications are invited from architects with at least 5
years post registration experience for the above vacancy
in the Architectural Division of the Property Services
Department.

The Department was formed 2 years ago by the
amalgamation of the Departments of Architecture and
Building, Environmental Health and Housing, under the
existing Borough Architect as the re-designated Chief
Officer.

ARCHITECTS

3-10 YEARS EXPERIENCE

We have an expanding workload and are looking for Architects at all levels to work on a variety of interesting medium sized commercial projects in London.

If you are self motivated and can command a top salary then send your CV (preferably with some reduced examples of your work) to:

ROLFE JUDD GROUP PRACTICE
Old Church Court
Claylands Road
London SW6 1NZ

For further information ring
David Ward on 01 582 7070
ALL LETTERS WILL BE
ANSWERED WITHIN 7 DAYS



SENIOR ARCHITECTURAL ASSISTANT

Commercial and Industrial Bias

due to an increasing workload a further Senior Architectural Assistant is required to join our existing team.

Applicants must be fully experienced in the design and detailing of commercial and industrial buildings and be capable of accepting responsibility at a senior level.

A salary commensurate with the level of responsibility will be negotiated.

Please apply in strict confidence to:
Company Architect
Wards Construction (Medway) Ltd
2 Ash Tree Lane
Chatham, Kent

TP BENNETT PARTNERSHIP

NEW PROJECTS: NEW TEAMS

The T P Bennett Partnership has new opportunities for Architects with proven design ability and construction experience.

Please send C.V. to:-

Gregory A Gale
T P Bennett Partnership
262 High Holborn
London WC1V 7DU

ARCHITECTS

-for design involvement on
an international scale

The PSA annually undertakes a £2000m construction and maintenance programme worldwide and is responsible for the design, construction and adaptation of Government buildings and installations.

The sheer variety and scope of these operations provides opportunities for project involvement from design and planning through to construction on projects ranging from museums to research laboratories, embassies to prisons and housing for the Armed Services.

Great demands will be placed on your architectural expertise and design ability on projects which will often attract high public and professional interest.

Vacancies exist throughout England for Registered Architects who are keen to be involved in this scale of operation.

RELOCATION ASSISTANCE MAY BE AVAILABLE.

For further details and an application form write to Civil Service Commission, Alencon Link, Basingstoke, Hants RG21 1JB,

PSA
PROPERTY
SERVICES
AGENCY

METROPOLITAN BOROUGH OF STOCKPORT
ARCHITECT
£7,311-£19,897
The Architects Department is a multi-disciplinary unit based in the town centre.

Architect required with a range of skills, able to contribute to the development of design and construction within a team working on Education and Leisure projects. To be responsible for projects from feasibility to completion on site under the supervision of the Principal Architect.

Care allowance payable.

To discuss the post phone Alan Tyler, Assistant Director (Arch) Development & Town Planning Division, Greenhale House, Piccadilly, Stockport SK1 3XZ (061-480 4949 ext. 3516/3505).

Closing date: 11 November 1986
An Equal Opportunities Employer

COUNTY ARCHITECT'S DEPARTMENT

ARCHITECTS

Up to £14,862

Architects needed for work on Libraries, Law Courts, Colleges, Schools, residential and historical buildings. We are looking for good designers able to take full responsibilities from brief to final certificate.

If you want to know more, ring 0245 267222 Extension 2200 and ask for Alan Willis or Len Holland for an informal chat or contact Dawn Whelan at the Personnel Section, County Architect's Department, County Hall, Chelmsford, Essex, Extension 2230, for an application form and written details.

Closing date for receipt of completed application form: 7th Nov 1986.

ESSEX
County Council



Our successful Design & Build Department approach to contracting has created the following career opportunity in the Design Department.

ARCHITECTURAL/ BUILDING TECHNICIAN

We are seeking a technician who has completed an appropriate course of study to TEC/HTEC standards with a minimum of 3 years experience in a design office.

If you are interested in this position then write with C.V. to:
J. Coleman
Chief Architect

Hall & Tawse Construction Ltd.
39 Botley Road, North Baddesley
Southampton SO62 9ZG

MARRISON RECRUITMENT
46-48 London Road, Twickenham, Middlesex TW1 2
Telephone 01-891 0891

We are employment consultants who specialise in the placement of architectural, permanent and contract personnel.

We have vacancies for Assistants/Technicians and Architects in London & Home Counties.

For further details please phone Martin Harrison or Karen Spencer.

SENIOR DEVELOPMENT SURVEYOR

Salary £10,800-£13,932 (+ £213 weighting allowance) + company car + non-contributory pension

The retirement of the Principal Development Surveyor has created a vacancy for a Senior Development Surveyor, based at the Trust's head office in Tring.

The work will include appraisal, creative input and on-site monitoring of new build and modernisation projects prepared by both consultants and Trust staff.

Preference will be given to experienced, qualified building surveyors or architects, but unqualified applicants with exceptional appropriate experience will be considered.

The Trust is one of the largest charitable housing Trusts, owning and managing over 13,700 properties on 50 estates throughout England. The Trust operates a non-contributory pension scheme transferable to and from Civil Service, Local Government and certain other approved bodies.

Please apply in writing to the Director, The Sutton Housing Trust, Sutton Court, Tring, Herts., HP23 5BB for an application form and further details.

THE SUTTON HOUSING TRUST

haworth king partnership

chartered architects & designers

WEAVERS YARD 6/7 WEST STREET FARNHAM
SURREY GU9 7DN FARNHAM (0252) 715028

ARCHITECTS

required for expanding practice that would be pleased to hear from qualified Architects with 3-7 years post part III experience to join a busy team. Salary commensurate with motivation.

Principal Architect (Maintenance and Building Services)

Salary £13,653-£14,862 p.a.

Applications are invited for a Principal Architect to run the Council's combined Building Maintenance and Building Services Section within the Architectural Division of the Technical Services Department. The successful candidate will control a team of seven Building Maintenance and three Building Services personnel and will be directly responsible to the Chief Architect for the efficient planned maintenance of some 160 general premises, 20 warden assisted flat blocks and 7600 other dwellings, and for the day to day repair of the general premises. The total annual expenditure thereon is approximately £1M. Will also be responsible in collaboration with the City Treasurer's Department, for the full implementation of the Council's Energy Policy.

Applicants should be architects registered with the Architects' Registration Council of the United Kingdom, preferably having at least ten years post-graduate experience, some technical knowledge of Building Services, and a wide understanding of building maintenance problems, techniques and contractual and costing methods.

An essential User Car Allowance is payable. The person appointed to this post will join an Authority that can offer modern office accommodation, flexible working hours, staff canteen, social club, car loans to all staff on £8,608 p.a. and above and contract car hire on a 65/35 basis. Depending upon circumstances up to £4000 disturbance allowance and bridging loan facilities. Consideration will be given to temporary housing accommodation.

Closing date: 7th November 1986.
Interview date: 18th November 1986.

Application form and job description may be obtained from the Chief Personnel Officer, Council Offices, Military Road, Canterbury, Kent CT1 1YW. Telephone Canterbury (0227) 461785 Ext. 4208.



CANTERBURY
CITY COUNCIL

Architectural/Shopfitting Technicians

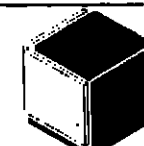
Our Price, Paperchase, Sherratt and Hughes, Do It All and Music Market, are just some of the names you probably don't associate with W H Smith. But you should, because they are all part of one of the most famous retailing groups in the world. We currently have major expansion plans in each of these existing specialist chains, as well as a rapid programme to give our traditional W H Smith High Street shops a very different image.

Now we want to recruit additional staff to work within teams in our Architects Department to assist us in these exciting projects.

Candidates, aged 20+, should have a minimum of 5 years relevant design/drawing

office experience, ideally but not essentially gained in the retail industry. We offer competitive salaries commensurate with experience, non-contributory pension scheme, substantial discounts on a wide range of merchandise and similar benefits from a large, successful company. Relocation assistance will be available where appropriate.

Please apply in writing giving details of age, qualifications, experience and current salary to Miss N Gill, Personnel Officer, W H Smith & Son Ltd., Bridge House, 45 Faringdon Road, Swindon, Wiltshire SN1 5BH.



Wyn Thomas & Partners
Planning Consultants Landscape Architects Architects
have vacancies for
Architects and Technicians

This is an opportunity to work on a variety of interesting projects in our established multi-disciplinary practice committed to producing high standards of architecture. Registered Architects and Technicians with recognised qualifications preferred.

Write with CV and 1 or 2 A4 sized examples of work to:
Wyn Thomas & Partners
Andrews Buildings
67 Queen Street
Cardiff CF1 4AU

EXPERIENCED ARCHITECT

£ NEGOTIABLE + CAR

for the design and subsequent site management of high tech industrial parks in the Thames Valley. We are 22 strong with support of a RUPCAPS CAD system in new offices in SW1.

Profit based bonus system in addition to good salary + car.

Please ring Ian King or Ian Hall or write with your C.V.

IAN C KING
CHARTERED ARCHITECT

Greencoat House
Francis Street
London SW1P 1DH
Telephone:
01-830 0322

Architectural Technicians

Sc4 - Sc6, £7,311-£10,164 depending on qualifications and experience

The City Council has recently established the Property Services Department to implement a new concept of integrated management for all council property (other than housing). Within this new department the Design Services Office provides an integrated multi-disciplinary service combining Architectural, Quantity Surveying, and Consultancy Engineering professions. Interesting opportunities are available for experienced Architectural Technicians, qualified to HNC level for work over a range of projects including Education, Housing, Social Services and special projects.

Duties will include the drawing up of specifications and schedules, preparation of production drawings, site visits and liaison with contractors.

For an informal discussion contact Terry Ward on extension 2957.

Application forms are available from the Director of Property Services, Floor 8, Tower Block, Much Park Street, Coventry CV1 2QE. Telephone: (0203) 25555 extension 3095. Returnable by Monday 10th November 1986.

We welcome applications from men and women regardless of disability, race or marital status.



MICHAEL HASKOLL ASSOCIATES
Chartered Architects. Design Consultants
7 Cromwell Place London SW7 2JN 01 581 8535

ARCHITECTS

Two Architects required to work on quality retail projects at feasibility and design stages.

Candidates should have a minimum of one years post qualification experience and be in search of a demanding role in an expanding practice.

Excellent opportunities to develop individual skills in the retail sector.

Contact Ian Williams for interview.

HOUSING AND ESTATES DEPARTMENT

Wokingham District Council has one of the fastest growing populations in the country, largely due to its location. This has led to an increased requirement for Council provided facilities. The Architect's Section is facing a marked increase in workload and is urgently seeking staff to fill the following positions. The bulk of the work is new build housing and alterations to the Council's housing stock, but there is also a wide variety of other projects at various stages in hand at this time.

The Council are looking for staff with flair and imagination, a strong sense of design and, naturally, a sound knowledge of building construction. Staff at all levels are encouraged to shoulder as much responsibility as their experience permits.

PRINCIPAL ASSISTANT ARCHITECT POST NO. HE8

Salary: £11,952 - £13,653 p.a. Grade: PO

(Essential User Car Allowance)
The applicants for this post must have been a Registered Architect for at least five years and have had previous experience on Local Authority housing developments. They will need to demonstrate leadership qualities and organisational skills.

SENIOR ARCHITECT POST NO. HE104

Salary: £10,669 - £11,271 p.a. Grade: SO1

(Essential User Car Allowance)
The applicants for this post are required to be Registered Architects. They will be expected to handle projects in varying sizes from inception to completion, either on their own or as a leader of a small team.

SENIOR ARCHITECTURAL ASSISTANT POST NO. HE44

Salary: £8,391 - £9,216 p.a. Grade: Scale 5

(Essential User Car Allowance)
The applicants for this post must have held RIBA Part 1 for 2/3 years.

ARCHITECTURAL TECHNICIAN POST NO. HE48

Salary: £6,608 - £7,158 p.a. Grade: Scale 3

Applicants should have held MSAAT for at least one year and should be capable of organising small projects.

The Council has a generous relocation scheme, offering assistance towards legal and estate agents fees, removal expenses etc., and temporary housing may be offered, if appropriate.

For further information and an informal discussion telephone the Principal Architect, Eddie Boyle, on Wokingham (0734) 788833, extn. 338.

For an application form and job description, returnable by the 31st October, 1986, please contact the Personnel Department, District Secretary's Department, Council Offices, Trinity Court, Emmview Close, Wokingham, Berkshire RG11 8AE. Telephone: Wokingham (0734) 788833, extn. 208 or 207, quoting reference HE8, HE104, HE44 or HE48.

WOKINGHAM DISTRICT COUNCIL

ATKINS SHEPPARD FIDLER AND ASSOCIATES
is a professional practice part of a broad based group of consultants. The team includes architects, landscape architects, specialist urban and regional planning, interior design and graphics. We thus have the

experience among our staff to respond to a wide range of challenges from our clients. We also act as specialist advisers working along with our clients' teams and those of other consultants.

We currently have the following vacancies

Landscape Architect

We will ask you to take on the responsibility of a project landscape architect or ask you to work as part of a multi-discipline team.

Candidates must have several years experience in a range of landscape work in the

UK and overseas, ideally including design and contract management. Qualifications should include ALL.

Benefits may include assistance with removal. Subsistence allowances are paid for overseas work.

Landscape Assistant

You will be a member of a team of landscape architects, and will work with them on a range of projects. You must have an aptitude for design and you should be a

graduate of the Landscape Institute.

Please write giving full career and salary details to

David Thirkettle, Atkins Sheppard Fidler and Associates, Woodcote Grove, Ashley Road, Epsom, Surrey KT18 5BW.

Atkins Sheppard Fidler and Associates

MATRIX
Feminist Design Cooperative
need an
ARCHITECT

or someone with EQUIVALENT TRAINING with 3 years experience to join our cooperative and help us put a new housing scheme on site. We would like to have you to become involved in the rest of our work, which includes nurseries, public housing and anti-racism work for community groups. We provide black and ethnic minority women groups and women groups.

We are looking for someone who cares about the quality of design and who has a wide range of experience, not only within architecture, but also in the areas of community work, user control of the design process and working collectively. Experience of working within black and ethnic minority communities is an important advantage.

Salary £10,500 per annum on rate.

Hours negotiable.
We regret the office is not accessible for wheelchair users.
Full access code with job description.

Ring or write for application form (forms to be returned by 8th November 1986),
8 Broadway Street, London N16 5BN
Tel: 01-469 5803

B H MOUNTAIN FLANAGAN ASSOCIATES
2 St Johns Road, Tunbridge Wells
Kent TN11 9NP

require an energetic, enthusiastic, experienced
**ASSISTANT ARCHITECT/
ARCHITECTURAL ASSISTANT**
capable of the fast efficient production of working drawings and specifications.
Telephone Tunbridge Wells 20741 or 21325

PICK EVERARD KEAY & GIMSON
require an

ARCHITECTURAL ASSISTANT
with at least 3 years commercial experience to work in their small branch office in
COVENT GARDEN

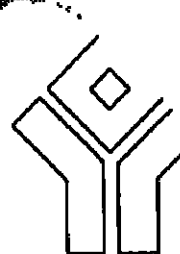
to take responsibility on all aspects of fast moving retail projects throughout the U.K.

Please write with C.V. to:-
Pick Everard Keay & Gimson
12/13 Henrietta Street
Covent Garden, London WC2E 8HL

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New commissions require us to recruit experienced and lively staff to our Richmond offices, to handle prestige healthcare, housing, industrial, airport, retail, leisure and commercial projects in UK and Spain.

If you are looking for an attractive salary with the opportunity to develop your existing skills and acquire new ones please write with cv. to
Terry Foster.



For further information and an informal discussion telephone the Principal Architect, Eddie Boyle, on Wokingham (0734) 788833, extn. 338.
For an application form and job description, returnable by the 31st October, 1986, please contact the Personnel Department, District Secretary's Department, Council Offices, Trinity Court, Emmview Close, Wokingham, Berkshire RG11 8AE. Telephone: Wokingham (0734) 788833, extn. 208 or 207, quoting reference HE8, HE104, HE44 or HE48.

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